Easy iot arduino projects

Arduino is a single board microcontroller. This is intended to make the application of interactive objects or environments more accessible. The hardware consists of an open-source hardware board designed around an 8-bit Atmel AVR microcontroller or a 32-bit ATMEL ARM. Here, we list some of the best and most useful Arduino project ideas gathered from different resources and very interesting to implement. Arduino is a single board microcontroller. This is intended to make the application of interactive objects or environments more accessible. The hardware consists of an open-source hardware board designed around an 8-bit Atmel AVR microcontroller or a 32-bit ATMEL ARM. Here, we list some of the best and most useful Arduino project ideas gathered from different resources and very interesting to implement. Simple Arduino Projects with Code [Latest] Published in 2021 Published in 2018 Published in 2017 Published in 2016 Latest Arduino Projects DIY Arduino powered GoPro Panning Rig:This is a demo and overview of my Arduino powered camera panning rig. It uses Arduino Uno, SHIELD LCD button, 5v Stepper motor & drivers and a bunch of misc hardware. Smart Sock Augments Existing Prosthesis Capabilities:Prosthetic limbs available today lack sensation. A lot of research is going on about this. This project explains the development of smart prosthetic socks that have the ability to feel, i.e. being able to tell about the pressure applied, the foot being touched etc. Shining Back Live Set Blows Your Mind with Light and Sound:Shining back is a grid structure that has the prospect of switching to Duo's direct rhythm. This application runs on Arduino UNO and uses mad mapper, module8 software. Gooniebox Challenges Guests to Solve Their Puzzles:Here the puzzle box is designed by using arduino boards to entertain guests. Participants must unlock the treasure box at the bottom by pressing buttons and other interactions. Cutting Wires with Scissors and Arduino:A highly missing automatic cord cutter is designed here. This wire manual cutting is a time-taking as the business grows, but at the same time industrial cutters are very expensive. Here 3D-printed cables are used to feed wires to scissors. Focus Ford Autonomous DIY... Or Does?:P royek give a demo of Ford's car automation focus. The system uses five cameras, an ultrasonic sensor and an Arduino. Each camera has its own Arduino board. All this is connected to the master system. Inside the micro display the car is connected to ensure that this works properly. Flip frame Is a Rotating Digital Picture Frame:Here the rotating digital picture frame is designed from a discarded LCD TV. It uses raspberry pi and Arduino. Raspberry pi used for the image to the side and the Arduino are used to flip the screen. Square Off Is a ChessBoard with a High-Tech Twist:The chessboard designed here allows you to play chess on a plane with anyone World. This is the most intelligent and connected chessboard. It's designed to use arduino as its core. Self-Driving Tricycle:The self-driving rickshaw drives itself with commands without operator control. The use of rickshaws reduces our dependence on fossil fuels. Collector is a Kind of Reality Re-Mixer:The system proposed here collects loud noises from its environment and plays them back by eliminating silence. It plays the sound in the order it has collected. The system also has a rotating robotic stereo microphone. Ping Pong FM:A fun music game designed in this project. Ping pong FM is table tennis played per song played. Players can choose their own songs. If the ball is missed, the song slows down automatically. AutonomousLy Check Traffic On Modified Clocks:This project shows a smart wall clock that shows the intensity of traffic on the road. The watch consists of 12 RGB LEDs that turn red when traffic is heavy and green when traffic density is low. This LED is controlled by the board of Arduino Uno. Arduino 1sheeld connected to smartphones obtains data about traffic from the internet. Thus, leDs are redirected. Galaga Revived as a 4/5 Scale Mame Machine: Galaga MAME arcade machine is a game built using raspberry pi and MAME software. This project shows the building of this machine using the old CRT. The automatic remote control is designed for this using Arduino and IR LEDs to turn it on and change from TV to AV mode. Arduino MP3 Metal Sheet Alarm Clock: The alarm clock shown in the project is equipped with Arduino, MP3 player, RTC. It uses a 3.2-inch touchscreen. This arrangement is placed in sheet metal. It plays music and shows the current song and time. Build Your Own Electronic Drum Kit Using a Mega Arduino: This project demonstrates building an electronic drum kit using a mega arduino. The nine-set drum kit shown here is a build using available components. Electro Pollock: The Electro Pollock is a special drawing machine that is activated according to the music played. Music is analyzed by an algorithm that activates the servo motor with a brush, a fan for spraying paintings, electric valves. Arduino Thumb Piano: Arduino thumb piano using Arduino Uno, several metal rods and accelerometer. Beautiful music can be played from this instrument. It's called kalimbo. Electronic Messages in Bottles:This project shows building circuits inside bottles using LEDs. Scroll messages are displayed in a bottle. Here's how one can build circuits inside a bottle. LCD with DS3231 Real Time Clock Module: This project provides Clock description using RTC and Arduino. Here DS3231 is used. The RTC can calculate the time and date even in the absence of power. Smart (Ensorinstituut): Smart gaming is very useful to control children from playing games for a long time. The time at which a child can play the game is set. If time is reached the screen becomes invisible the game stops automatically. A notification message is sent to parents indicating the time, when their child starts playing the game. D25 Food Detector: The proposed project detects food. Generally, this type of food is detected by measuring its durability. The name of the food is displayed on the LCD. Sigfox Talking Plant: The talking plant is designed in such a way that it speaks on twitter. Sigfox is a network that connects factories to the internet. Someone can monitor messages from factories on the internet. Traffic Light: Traffic lights are designed using Arduino in this project. In this project Led lights are used as traffic lights. The order of lamps is processed by arduino. Inventive Toothbrush: A smart brush that sends notifications to parents when brushing its teeth is described here. This inventive brush plays fun music, when the child brushes. It also provides some instructions for good brushing behavior. Singing Arduino: The project consists of arduinos playing music. A web page is present where one can select the song to play. The time can also be set to play the song at a specific time. Smart Plastic Containers: Smart plastic containers monitor the stock stored in them. It sends notifications to users using it. It also updates the same thing on web pages. Add a $15 Screen to a Raspberry Pi: This project shows you how to connect an OLED screen to a raspberry pi. Raspberry pi is a mini computer; sometimes it requires a view connected to it. Transport inspector (Ensorinstituut): The transport inspector will send a notification to a mobile phone connected to the public transport network. Details such as bus number, arrival time, etc. are sent to the user's mobile phone. DIY Flight Instruments for Horizon and Compass: MPU6050 motion sensors are visualized using flight simulators in this project. Excel Arduino Remote (Proof of Concept): This project shows the concept of connecting Arduino to an excel sheet. Step-by-step procedures are described here. Free Parking for you (Ensorinstituut): This system designed here shows free on-site parking. It also sends a message if the place is occupied. Arduino Clock with Neopixel Ring Animation: This project shows the Arduino clock using an RTC IC. The time is displayed using a neopixel ring. The neopixel ring is a beautiful led arrangement. Eggzact Science: This system can be used in modern egg farms. Laid eggs are passed through sensors. Sensors detect these eggs counting them. This data is updated on web servers. Arduino UNO Guitar Pedal: The idea here is to create a guitar pedal and create your own digital sound from this without any knowledge of DSP processors. Smart Charger for 9V NiMH V1 Rechargeable Battery: Smart smart charger charging 9vNIMh battery is proposed here. automatically, stop charging when the battery is fully charged. Doorbell: The doorbell indicates connecting the device to the cloud. The door connects to the cloud cloud operated from anywhere. The transmitter actually opens the door while the receiver rings and is used to open the door. Future Trains: This is the prototype train of the future. Future trains will provide information such as their location and only authenticated passengers are allowed on board. The same is explained in this project. Sensal - All Senses Alarm Clock: Instead of an alarm clock that produces ugly sounds, alarms that keep you awake with pleasant falls are developed. It's called a sunrise alarm. The alarm goes off on the LED light instead of the sound. Build a Simple Cocktail Drinkbot with Arduino :Here is a robot that can make cocktails using arduino displayed. Arduino runs 600 Pixel NeoPixel LED Panel : Here is a 600 pixel neopixel Led panel running using UNO arduino. Arduino Sensors Projects Wooden Arduino Knocking Calculator: This is a mathematical invention made using Arduino. In this project we designed a calculator by implementing a tap sensor (sound sensor) in a wooden box. To perform mathematical operations, we run the Arduino program on a computer. Prototype Smartwatch Turns Your Wrist into a Joystick: The smartwatch can be used as an alternative to smartphones. But to operate this smartwatch it is necessary to use another hand. So, an interactive smartwatch that can be controlled using the hand gestures it holds is shown here. It contains several IR sensors, piezo vibration sensors and Arduino boards. This Arduino G Meter Shows How Fast Your Car Really Is!: This project shows how fast your car is driving. It uses arduino along with acceleration sensors. This project shows how much G this car pulled. Smoke Detection using MQ-2 Gas Sensor: Smoke detection is performed using MQ2 smoke sensor. When the smoke level is greater than a certain level, the buzzer starts ringing and the red LED is turned on. Ultrasonic Map-Maker uses Arduino Yun: This project uses ultrasonic and Arduino sensors. These sensors transmit ultrasonic waves and if nay obstacles are present it reflects back. Arduino calculates the distance between obstacles by using the time taken by the waves to reflect back. The Servo motor rotates the sensor at a specific angle. Coral Reef Controller: Maintenance of coral reefs / aquariums is a rather difficult task. The system allows users to monitor the temperature, lighting, etc. of the tank. Arduino transmits the status of this sensor to the user, hence the user can control this parameter. Automatic Pet Watering System: Automatic pet watering system, monitors water level in the bathtub. If the water level below remains, it automatically fills the water into it. The water level is directed using ultrasonic sensors. Based Distance Sensor: Arduino-based distance sensor uses 2 sensors along with Arduino. The two sensors are infrared proximity sensors and ultrasonic range discovery sensors. Ir sensors have a light source, which reflects infrared light from object to sensor. Ultrasonic Ultrasonics Smoother sensors produce high-frequency sound waves and calculate echo time, to determine distance. IOT Project Using Arduino IOT PCR: Internet-Connected Low-Cost DNA Replication.: The acronym PCR is an acronym for polymerase chain reactions. This process is used to replicate certain parts of DNA. The process is carried out in a device called a thermocycler. Here a simple thermocycler with low cost and easy to use is proposed. It can also be controlled over the internet, Baby-Pram Monitoring System: The system attached to this baby pram can monitor various parameters such as temperature, acceleration, light etc. IOT is used to monitor these parameters in the system. Mind-Controlled Arduino robot: This project shows a robot working on electrical signals generated from the brain. It requires Arduino, the EEG band. When you focus more on the fast-moving robo, if you wander it slows down automatically. Deltu Gaming Robot: Deltu is a gaming robot that plays small games with users. The user must imitate it. Otherwise, it will shake from side to side, stop rotating and open the camera, take pictures and upload them to Instagram. Robot Fish Swimming Under Arduino Control: The robo fish shown here can swim in the water. This fish consists of Arduino, crooked PVC pipes. This fish can be controlled using a TV remote. The tail is powered by water. Car Controlled Robots Using G-Sensor Smartphones: Here's a project that shows robot car controls using Bluetooth and smartphones. Bluetooth apps are used to control robots. The Bluetooth receiver is connected to the robot via arduino. Arduino Based Line Following Robot: Arduino-based line follows a robot operated by two servo motors at its wheels. Servo motors and light sensors work by coordinating moving the robot on a specific path. Arduino-Based Obstacles Avoid Robots: Arduino-based obstacles avoiding robots will be able to move away or shift its path by sensing obstacles. The project uses the concept of distance measurement using remote sensor drivers. Arduino Based Robotic ARM: Arduino-based robotic arm project is a simple robotics project that uses Arduino boards to control the robot arm. We can move this arm by sending orders through the Arduino. Arduino-Controlled Robotic Drum: This Arduino-based project is used as a drummer, controlled by Arduino. The artificial stick is moved according to the music and plays the drums. The movement of the stick is controlled by the Arduino. Basic Arduino Robotic Vehicle: This project, Arduino robots are building and controlling robots with Arduino programming. With this, we can control the robot with our computer by using motor controllers and distance sensors and Bluetooth slaves in the robot. Robofish - Arduino Robot: Robo fish- the name itself indicates that this project is to build robofish and control them. In this project we design fish and make them swim in swimming pools or water like real fish, passing obstacles. It uses 3 servo servos swim and position the sensors to avoid obstacles. Robots that Read and Talk RSS Feeds: This project explains to us about the rss feed reader robot. in the rss feed read and speak robot project, the robot we designed will not only reed the rss feed, but also be able to talk bait like a human. Self-Balancing Segway-Like Arduino Robot: Self-balancing Segway operation just like a robot, which uses a gyroscope to measure tilt and adjust itself automatically. The project uses an analog accelerometer along with an Arduino board to control itself. Simple Obstacles Avoiding Arduino Robots: Obstacles avoiding robots can be designed using Arduino and distance sensors. Using this project, we designed a robot that senses obstacles in its way and avoids it automatically. Arduino Medical Projects Touch Up Control Hospital Bed from iPad: This touch up control hospital bed is controlled from an iPad, using an Arduino. we can move the hospital bed up and down and can adjust the height level by pressing the button on the ipad, instead of pressing the physical button. Arduino Wireless Projects Arduino Based Home Automation: Arduino controllers are used to control household appliances, without a wired connection. Wireless connectivity of Arduino-based automation systems uses simple components such as relays and resisters. It controls household appliances by using Wi-Fi enabled devices. Arduino-based Wireless Power Meter: Arduino-based wireless power meter is for measuring the number of power units of an acceptable range. The main purpose of the project is to present accurate information about the energy consumed, to the user. RC Car Controlled Via the Web: The main objective of the project is to control the motion of remotely controlled cars using the web and Arduino. Arduino boards control the car by using a local server installed in the user's system. When the Arduino sketch runs on the system, the car will move in different directions as the user wishes. Tweet-A-Watt Wireless Electrical Monitor: This Arduino-based project is used to monitor household appliance power usage through social media. Arduino will monitor the use of equipment power using heat shrinkage. By connecting to social media (in this project we use twitter) we will get notified by getting push messages using Arduino. Wireless Online Remote Chess: This is a game project developed using Arduino. Using this project, we can develop a multiplayer chess game, controlled using Arduino. Chessboards are connected with motion sensors to record their movements. Arduino is connected to a web server and thus we can chess coin movements. Xbee Wireless Accelerometer: This project is designing an xbee-based accelerometer using Arduino. Xbee will serve as the recipient of the data. By programming the Arduino, we can control the operation of the accelerometer sensor. Arduino Wireless Animatronic Hand: Wireless Animatronic Hand Like a robot hand moment project. In this project, we will move our hands by controlling arduino's operations. The servos implemented in the gloves will move according to Arduino's instructions. Arduino Bluetooth Projects IMU to You!: Inertial measurement units are none other than Agular level measurements, special forces, magnetic fields etc. The project describes measuring this data and transferring it to a mobile device via Bluetooth. Arduino Bluetooth Basic Tutorial: Interfacing the Bluetooth module to the Arduino is described here. An example of WHO controls the blue teeth of led sing is shown in this project Arduino Bluetooth Android to Arduino Communication: The project is based on android and Arduino, which allows you to control your Arduino kit by using a Bluetooth android smartphone. To communicate with Arduino, android needs an interface, Android. Using this interface, android sends text commands to Arduino. Arduino House Automation Project Builds Entire Home Automation System with Raspberry Pi and Arduino: This project demonstrates a home automation system built using Arduino and raspberry pi. Some sensors are used to monitor various parameters in the house. Gestured Controlled Smart Home: Motion controlled smart home system proposed here. The project uses Mayo to detect hand movements. This movement is used to control the equipment. Non-Intrusive Elderly Smart Home (NESH): A proposed project monitoring smart homes with the elderly. The house is equipped with different sensors. Data from these sensors such as when they wake up, drugs taken etc. are sent to relatives or guardians. Control Your Light System Using Smartphones: Smart homes are improving lately. The proposed project controls household appliances using smart homes. Arduino plays a key role by processing data. RF-Based Smart Home Automation System: This project explains home automation using RF. Arduino is used to obtain data received from RF and control equipment. Gas Detector / Indicator (USB Powered) With Arduino: This Arduino project is automation and home safety. In this project we designed instruments to detect the presence of gases using sensors and we demonstrated them using a 7 segment LCD display. Gas detection and indication operations were achieved by Arduino. Arduino Security Projects Security Access Using RFID Reader: Interfacing rfid reader to Arduino is described here along with code. Arduino-based Home Security System: Arduino-based home security systems are used to provide security to residences. With this, we can provide safety and can prevent attempted theft and theft, and the unofficial entry of restricted people. Arduino-Based Security System: Arduino-based home security system used to security to residences. With this, we can provide safety and can prevent attempts at theft and theft, and restricted entry of people. Arduino Night Security Alarm with PIR Sensor: Arduino is especially useful for home automation and security applications. Arduino-based night security alarms are used to provide security at night. With this, we can provide safety and can prevent attempts at theft and theft. Arduino Security Alarm with Reed Switch: Arduino security alarm with read switch project is used to alert the user by sending or sounding the alarm if there is an attempted theft observed by the sensor. This is an arduino based home automation and security project along with reed switch and piezo buzzer. Telling Doorbell with Pushingbox: Arduino-based tells push bell is a home security based project. In this project, we can hack the doorbell to send push notifications to the phone. We can also send an email with a picture attached when someone is present at the door. Arduino programming will work in part with encouraging box services to perform this task. Arduino Quadcopter Projects Arduino Based Quadcopter: With Arduino, we can design quadcopters as well. We can control the quadcopter remotely. Quadcopters use a servo motor on their rotors and by controlling the motor we can control the speed of the quadcopter. Open-Source Quadcopter: In this project we designed an Arduino-based open source quadcopter to navigate and provide dangerous areas such as battlefields. It can be used for surveillance of situations and also for sending information to radio stations without harm to humans. Arduino Based Flight Controller For Quadcopter: In this project, we used arduino to control quadcopter speed and altitude. For this, it uses arduino flight controller boards along with various sensors, such as gyro scopes and accelerometers. We can provide additional sensors to withstand quadcopter height. Arduino RFID Projects RFID Access Control System: Rfid-based access control system is an Arduino-based home security project. provide security to home or work based on user identity authorization. Authorization is provided by RFID card. RFID Cat Door: This project allows us to control the door of the pet enclosure. The whole process is controlled by the Arduino. The cage door will only open when the pet is wearing the appropriate RFID tag. By using this Arduino project, we can protect our pets from other animals. Arduino Laser Projects Keep Your Cat Entertained with an Automated Laser Tower: This project demonstrates building laser towers that entertain cats. It uses an Arduino Uno, two servo motors, a Pan/tilt camera mount, tin to place the settings. Automatic Cat Laser: Cat Bot is an autonomous laser finger for your cat. This results in a rotating (moving) laser beam using a servo mounted on the By using two servos, arduino, you can give your cat endless pleasure. Fantastic Arduino Laser Harp: The Arduino laser harp is an instrument that produces light rays. This time The laser controlled harp is connected to any synthesizer, it will create several MIDI songs along with a light effect. Fully Functional Harp Laser: The laser harp project generates laser light beams using LEDs and lasers. The Arduino-based project works depending on the photo resistor. Photo resistors are connected in a certain way to receive laser beams from simple lasers. Laser Maze Powered by Arduino: Laser maze circuit is a security application, designed using Arduino. It is mostly used in gem stores to prevent theft and catch intruders. The project uses Arduino to control laser mazes and sound alarms when mazes are disturbed. Miscellaneous Arduino 7 Segment Led Display and Counter: This Arduino project is very simple and easy. The Arduino platform can be used for simple counting operations. It uses an LCD screen (7 segment LCD display) to display the operation of calculating arduino incension from 0 to 9. The seven-segment view will display numerical (numbers) depending on the Arduino sketch. Arduino Based Alarm Clock: We can design alarm clocks with time and date using Arduino UNO compatible boards. It also uses an LCD (for display purposes) and a real-time clock module. The entire circuit will be built on a prominent shield and connected to the power supply. Piezo's electric buzzer will ring at the current time interval. Arduino Based Auto Intensity Control Of Street Lights: The main objective of the project is to continuously monitor the power using the device and control their power consumption. This light intensity control system will use many LED lights along with arduino. The operation and intensity of leDs will be controlled by the Arduino, taking into account light requirements at peak and non-peak hours. Arduino-based Autopilot System: In this project we designed an Arduino-based aircraft (auto pilot) system, to navigate and provide live video of dangerous areas such as battlefields. It can be used for situation surveillance and also to send weather information to radio stations without harm to humans. Arduino-based Battery Charging: Using arduino, we can design a simple battery charger. The main purpose of the project is to make a charger using a Ni- Mh battery. Arduino Based Car Parking System: This project explains to us the automatic parking system of vehicles. It uses Arduino controllers and IR sensors to find surrounded obstacles (vehicles). It is one of the most used real time destinations in the parking area. Arduino-based Energy Meter: Using Arduino, we can monitor the power (energy) used by the system and alert users by sending it a text message. Energy level or range and voltage is observed using an LCD display. Arduino-based GPS trackers: We can locate vehicles or humans by tracking them using Arduino. Arduino-based GPS tracking system using GPS module find the vehicle on the map. It requires simple elements such as batteries and antennas, but at a very low cost we can design a tracking system using arduino. Arduino-Based Heart Rate Monitor: This project most helps medical field applications. The Arduino-based heart rate monitoring system will use the finger pulse recording module along with the Arduino. This pulse detection sensor will work depending on the pulse -the principle of plethysmography. Arduino Based Incubator: Arduino-based incubator was developed by the idea of medical conditions in rural areas. The project can be used effectively by technicians to save the lives of chickens and babies. Arduino micro controllers are used to control system temperature. Arduino-based Intervalometer: Arduino-based intervalometers are used to monitor things continuously, by the control cameras inside. We use arduino to control cameras and infrared LEDs. Ice is set to take a picture for each set time interval. Arduino-based Joysticks: Arduino-based joysticks are designed using a potentiometer and by using this joystick, we can control electronic systems such as computers. We designed this module by implementing a Digital to analog converter. Arduino Based Light Dimmer: The goal of the Arduino-based light dimmer project is to maintain triac in electricity, always. Dimmer circuits work by designing diode bridges using junction diodes. The bridge will control the voltage across the bulb using pulse width modulation. Arduino-based MP3 players: Arduino-based MP3 players are a cool project to work on. Arduino is capable of producing sound waves by implementing several components into them, such as speakers. This will work on the principle of voltage dividing circuits. Arduino-based oscilloscope: Arduino is capable of producing different waveforms, using atmega controllers and thus acting as oscilloscopes. It can produce very high speed oscillations because it has very high speed clocks. Arduino Based Part Fill Automatic Valve: Part fill vales are mostly used in rainwater tanks. Arduino is used to control water valves when the water level reaches a minimum level, so that a constant minimum water level is maintained in the tank. Arduino-based Shadow Alarms: Arduino-based shadow alarms are opto-sensitive circuits, which activate buzzers or alarms when light intensity changes. It is mainly used to detect intruders and sound alarms depending on the light-dependent resistor. Arduino Based Temperature Controller: Arduino based temperature controller is used to control and monitor the temperature of elements by using a temperature sensor. This temperature sensor continues to device temperature and warning if it exceeds the preset level. Arduino-based thermostats: We all know thermostats are temperature monitoring devices. Because it is connected to the Arduino, the thermostat (temperature sensor) will continuously room temperature or device. We can visually observe the temperature level by using an LCD screen. Arduino-based Slope Detector: Arduino-based slope detectors are used to detect object tilt. It uses accelerometers and LEDs to detect tilts on objects at times of earthquakes and motion detection etc. Arduino Based Underground Cable Fault Detection: The project works under ohms laws. In this Arduino-based underground cable fault detection project, we found faulty cables that were under layers in the ground. It uses a set of resisters and a set of switches to check for errors in the Arduino Based Vehicle Parking Counter wires: The vehicle parking counter will count the number of vehicles entering the parking lot. The amount of parking can be calculated using 2 sensors at the parking entrance. Arduino-based voltmeter: Arduino voltmeter converts applied AC voltage signal into DC voltage, using voltage dividing circuit. The voltage dividing circuit can be modified to work at different voltages by connecting it to different base components. Arduino-based Water Level Controller: Arduino-based water level controllers automatically control the tank's water level by detecting water level using sensors. When the water level increases the preset level, the circuit warns the user by sounding the alarm and automatically turning off the tap/pump. Arduino Camping Led Light: This camping light circuit will use LED lights to understand the operation of camping lights. The operation of the LED is controlled by the Arduino board and presses the button inside. Arduino Christmas Led Lights Bar: Working with this Arduino-based Christmas lights project is very easy and fun. We can create Arduino boards to work with LEDs to light up as Christmas light effects, using only simple electronic components. Arduino Controlled Yogurt/Beer Maker: Arduino controlled yogurt maker is used to prepare yogurt at home by controlling the temperature and cooking time of yogurt. It uses a thermostat for temperature monitoring and a heat sink for temperature control. Arduino Digital Voltmeter: Arduino voltmeter converts the applied AC voltage signal into a DC voltage, using a voltage dividing circuit. The voltage dividing circuit can be modified to work at different voltages by connecting it to different base components. Arduino Firefly Jar with The Atmega32: The Arduino firefly jar is an artificial method to create a firefly effect using arduino UNO and ATmega 32 boards. The project is working on a very simple technique that, photoresister will control the switching of LEDs depending on the intensity of light. Arduino Hall Effect Sensor (Gaussmeter): This Arduino-based gauss meter is used to measure magnets use hall effect-based sensors. This project can be used to experiment on magnets. The strength of the magnetic field will be displayed on the LCD screen. Arduino Icicle Lamp Lights LEDS: This ice light project will work using LEDs along with Arduino boards. LeDs will turn on and off sequentially and the order of lights and switching can be controlled by arduino. Arduino Multiple Lights Dimmer: In this Arduino-based dimming project, the lights are tiered with each other. And their operations are controlled using opto couplers. Multilevel lights or ramps go down in order to turn on and off, with some delays. Arduino Music Player: Arduino based mp3 player is a simple and easy project. Arduino is capable of producing sound waves by implementing several components into them, such as speakers. This will work on the principle of voltage dividing circuits. Arduino Painting Machine: This Arduino-based paint machine is used to reduce human effort and error when painting walls. The project uses stepper motors and servo brushes to paint the required areas, using Arduino. Arduino Panic Alarm: Arduino-based panic alarm project is used to alert users whenever a user panics, by sounding an alarm. Piezo's electric buzzer is used to generate alarm sounds. It uses two main elements to do this, such as the Arduino micro controller board and the interfacing device. Arduino Powered Binary Clock: We can design binary clocks using Arduino. The project requires simple electronic elements such as LEDs. LEDs are arranged sequentially to display analog clocks. Arduino Powered Lucky Cat As Physical Webcounter: This project is used to show us when people visit our web page or website. A lucky cat idol will let us know this by connecting this to a web server using Arduino. The project uses simple hardware components such as LEDs and servo motors. Arduino-powered phones: The phone can charge the Arduino using its Li ion battery. This Arduino-powered phone project will be useful for charging apps, using simple elements such as diodes and resisters. Arduino Powered Poker Tables: Arduino-based poker tables are used to produce illuminated lights around the poker table. The project runs using a web page hosted on a local server, which is connected to Arduino. We can also control this from a cell phone. Arduino PWM Led Control: In this project, we control led brightness by using pulse width modulation techniques and Arduino. Arduino boards are filled with basic hard ware components and as wavelengths for pulse width modulation techniques vary, LED brightness also varies. Arduino Room Temperature Monitor: This project will help us monitor room temperature using thermostats and Arduino. We can monitor the temperature using http api server and can send text messages about temperature and conditions Arduino Self Timer: The Arduino self-timer is a basic Arduino project that can be used as a circuit timer. The timer will be displayed using an LED screen. A lead lead also used to visually show timers. Arduino Siren Sound Alarm: Arduino siren alarm project is used to create alerts by powerful audio-visual warning devices using arduino platform. This circuit produces loud noises and wailing-wailing as a warning signal. And one LED gives a visual warning Arduino Stock Lamp: This Arduino-based stock alarm light will alert users by flashing the lead when the stock reaches preset levels. This circuit needs to be connected to the server to create a warning about the stock. This will save us time to check all the stock on the internet. Auto Camera Shutter Switch: Arduino is used to control the camera shutter after elapsed time. This requires an interface between the Arduino board and the camera. Using multiple electronic components, Arduino can send commands to close the camera shutter, connected to the Arduino board via cable. Automatic Head Tracking with Arduino: Arduino-based head tracking system is used to detect tilt. To detect tilt, arduino uses gyroscopes and 3-axis accelerometers. The ultimate goal of the project was to control the camera on my RC glider. Flashing A Led with Arduino: This is a very simple Arduino project that uses only LED and resisters. The led is connected to the Arduino board by resisters and by running arduino code on our computer, we can create a led to blink with the current delay time. Blinking Eyes Arduino Pumpkin: Eye flashing Pumpkin Arduino is a funny and scary idea. In this project we made pumpkins to move with the help of servos with flashing LEDs in his eyes. The pumpkin and its movements are controlled by buttons, and arduino. Flashing Leds Sketch: This is a simple Arduino project with which we can control the led light to blink, by setting the time to life and death. By running the code on our computer, we can create leds to on and off at certain intervals. Brainwave Powered Prosthetic ARM by Arduino: This is a great project idea using Arduino that will greatly help disabled people in real time. Brainwave-powered prosthetic arm projects will move the robot's hand by the human mind. And this module uses arduino boards and Mindwave Mobile headsets. Breathalyzer Microphone: A Breathalyzer Microphone is a system for work based on the collection of data sets of blood alcohol content levels. We can measure a person's composure with a device that, for all intents and purposes, looks no different from a standard microphone. Calibrating Sensors Automatically (Calibration): Using this Arduino project, we can calibrate the sensor. Sometimes, the working efficiency of the sensor will decrease over time. To work with sensors properly and effectively, we need to This can be done by Arduino. Sentinel Cellular Sensor: The mobile sentinel project uses a GSM shield to build a remote alarm system based on the Arduino platform. The system will alert you in seconds send text messages to your phone by connecting with pressure sensors, motion sensors applied at home and office doors. Coin Operated Advice Machine: A coin-based advice engine is something that gives you advice every time you put a coin into it. Basically, to get an idea of this coin-operated machine, we need to press the button after inserting the coin. Connecting an iOS Device to an Arduino: We can connect an Apple phone (or an iOS basic electronic gadget such as an I phone I pad) to an Arduino and we can work with it. This project will tell us how to connect and work with your iOS device. Control A Relay with Arduino: In this project, we control the relay using Arduino. The jumper cable is connected to the relay and led. When no device is connected to the relay, the LED will glow to indicate no power state. Control LED's On/Off with IR Remote And Arduino: The main objective of the project is to manually control led lights with the help of Arduino and remotes. We use the IR remote to control the led operation, which means we can turn it on and off by sending and receiving IR signals from the remote. Control Servo Motors with The Wii Mote Joystick: In this project, we control the motion of the servo motor by using a joystick. We use the joystick will mote along with the Arduino board to control its movement. Controlling LED Flashing Rate Using Potentiometer (Analog Input): In this project, we controlled the led flashing rate with a potentiometer. Potentiometers are used to control resistance and thus with the current flow to the LED. So, depending on the current flowing into the LED, we can make led on and off. Making a Single Cell Battery Tester: A single cell battery will be 1.4 volts to 1.6 volts almost. We can measure the level of battery voltage by using the Arduino analog Read function library. depending on the level of battery voltage, the LED will shine. Sensor Tap Detection :The knock sensor is a device used to prevent sparks or explosions in the engine, which can cause serious damage to the vehicle's engine. By using arduino we can detect knocks on the engine and can prevent vehicle damage. Digital Clock with Arduino and Ds1307: In this project we will build a digital clock using Arduino and DS1307 real timer ICs. This IC provides information on years, months, dates, hours, minutes, and both in binary form through lcd screens. Digital Combination Lock: This is a security application using Arduino. Arduino will control the door lock, with a combination of digits or combinations. users can lock and unlock doors by pressing digits on the hex keypad, which consists of numbers and digits. These hex key pads are copied with Arduino and can be operated by sketches (programming). Dirt Simple POV Led Display: POV means persistence of vision. We can do this. POV-led display using a group of LED and Arduino. pov is a blurry vision that we see when waving at an object. In this project, we display letters and characters on LCD screens as they move at different speeds. DIY Gaming with A 3d Controller: The main goal of the project is to create a 3dimentional hand positioning system using Arduino. We preserve similarities of functionality in this project. We can visually observe the position of the hands in a 3D display. DIY Musical Key Tar: The Arduino key tar is used to create musical sounds controlled by arduino boards. By attaching strings to the Arduino and controlling them we can generate sound from tar locks. Every time the keytar string touches the fret, the system makes a sound. DVD Player Changed to VFD Clock: In this project, the damaged DVD player is submitted to work as a versatile clock. VFD drivers (vacuum fluorescent displays) are used in association with Arduino to design clocks from DVD players. Electronic Memory Game: This is a fun full project using Arduino boards. In this electronic memory game project, we designed the game to test the user's memory power. The project uses simple components such as resisters and LEDs. E-Sleeper - Fashion Depends On Your Pet's Sleep: This is a project designed to handle our pets. In this project we designed pet beds to make our pets sleepy and calm by using Arduino, known as an e-sleeper. The e-sleeper will play different sounds and turn on the led light at a constant flashing speed. Fade LED Brightness (Fade/Fade): This is a simple project that fades light led by depending on arduino commands. The project does not use complex ant mechanisms. We only use resisters and lead in this. The LED will fade (adjust brightness) depending on the current allowed for it through the Arduino. Fade Led in and Out with Arduino: In this project, Arduino boards are used to control led redirection. Leds connected to the Arduino will fade in and out, depending on the current flow through the resister. Fan Speed Controlled by Temperature and Arduino: Fan speed control projects are used in small and large industries to control fan speed depending on their temperature level. The project mainly uses temperature sensors and Arduino to control fan operation. G-Arduino Automated Gardening System: This 'G-Arduino' project is an automated gardening device, controlled by Arduino. This project will be carried out considering the humidity and soil moisture in the atmosphere. Automated gardening systems can be implemented using simple electrical parts such as sensors. Giant 6 Foot Disco Ball Music Visualizer: This football disco is a party time project using Arduino. Large disco balls are used to produce light effects according to the music. The football is filled with LED bulbs controlled using Arduino. GPS Cat Tracker: This Arduino-based cat projects are used to track our pets using GSM technology. The instrument is attached to a pet and by running an Arduino sketch, we can find our pet's place in real time, as on a map. Hacking the Nes Controller into the Security Keypad: In this project we hacked the NES controller and used it as a security key pad. Arduino will be used to control NES action. Hacked controllers can be used as security systems such as door locks, by operating using keys. EEG Toy Hacking With Arduino: We can hack EEG toys using Arduino. By using the flex interface of the human mind we can read the data in a toy eeg with a certain level of baud. Arduino High-Speed Photography: High-speed photography can be achieved using arduino, by controlling the camera's trigger rate. We use opto couplers, digital cameras with tripods and trigger devices to take high-speed photography. Homemade X-Ray machine: This project is a simple homemade x-ray machine, using Arduino. We can see through things by this project and capture x-ray images of things and substances. Interactive Game Controller: This interactive game controller project is used in game apps. We can control the game-play by using a toy connected to the Arduino and some motion sensors, manually. Rotary Phone To Arduino Play Interface: The main purpose of the project is to interface a rotary phone call with Arduino and make use of it. Arduino sketches are run on the computer to display the operation of the play kentin on the screen. Interacting with Maya and 3D Studio Max: In this project, we interface Arduino with maya and studio max 3D. By using a servo motor and some we can also move the model manually and can also view 3d images on the computer by running a sketch. Knight Rider Effect Sketch: Arduino is used to create knight rider effects using LEDs and resisters. The LED will turn on and off within a certain time so it will look like the light of one LED is shifted to its neighbor. Arduino will control led switching by running sketches in the system. Leap Motion Tilt Marble Maze: This marble maze project slopes this leap motion based on the Arduino. the project uses motion sensors and Arduino to control the maze tiles. Low Cost Global Satellite Signals with Iridium: The Arduino-based global satellite system is very useful in tracking applications. It uses a compatible arduino iridium satellite receiver for signal reception. It can also send text messages to users about the satellite's position. Creating an Arduino Led Bar Graph Display: In this project we control the switching of a group of LEDs using Arduino. LED blades are connected through the resister. LED sleep will receive current through the resister and that will make the LEDs become on and off, at the same

time interval. Creating RGB Combination Door Locks: This is a home automation and security based project using Arduino. RGB RGB LEDs are used to lock and unlock doors. Arduino sketches are used to program modules to work RGB as a security key. Marble Labrynth Controlled Using the Wiifit: This game is designed based on Arduino. Marble mazes are used to control wiifit, which is likened to arduino. Arduino sketches control the movement of the maze by detecting changes in motion sensors, adjusted in wiifit. Metal Detector Made with Arduino: In this project we designed metal detectors using Arduino. the device is used to detect the presence of metal, without touching it. Arduino-based metal detectors will work on inductive sensing principles. Mind-Controlled Nerf Gun by Arduino: This mind-controlled NERF guard weapon will work based on human mind signals. We use a mind wave read interface to avoid misfires. The Arduino Board will control the operation of this weapon using a mind-reading interface. Mirrored Shack Lights Up the Desert Arduino: This mirror shack light project provides a beautiful light effect using arduino boards. This is an outdoor project that can be done by adding mirror strips to the outside of the hut and installing special Arduino-controlled electronics inside. Arduino Multi-Touch Touch Screen Music Controller: The project's main goal is to design a touch-based system to control the music system, using Arduino and IR. We can control music with a touch pad or touch screen using our fingers. Musical Midi Shoes: This project we will produce musical tones instead of the sound of ordinary feet, as we walk. There is a stylish sensitive resister inserted into the shoes we wear. The force sensitive resister is connected to the Arduino and the piezo buzzer to produce sound. Open Source Game Boy: This is a game project designed based on the Arduino platform. In this project we designed a game that can be played using a joystick. The LCD gaming screen will be used to display the game visually. Overclocking Arduino With Liquid Nitrogen: In this project we are trying to increase arduino clock speed by using liquid nitrogen. Arduino boards are dipped in liquid nitrogen, the hourly speed will increase due to the cryogenic temperature of the liquid N2. LEDs are used to indicate changes in clock speed. The yellow LED will turn green due to the increased ribbon gap, due to the low temperature. Play Different Tones as Light Intensity Changes (Tonepitchfollower): Using this project, we can play changeable musical tones on speakers controlled by LDR light intensity. When we move our hands around the LDR, we can change the intensity of the light so that we can vary the tone of the music. Potted Plant Protector: By using the project This Arduino we can protect potted plants. We use humidity sensors and temperature sensors to detect plant conditions. To monitor plant crops we use LCD screens to observe readings visually. Proximity Sensor to Automate Your Haunted House: This is an exciting project based on Arduino, to create a haunted house effect. The project is used to detect the presence of our guests in animated haunted houses and to create terrible light effects using LED lights and photo transistors. Rainboard – Rgb Led Rainbow Fader: This rainbow fader effect project was designed using Arduino lights and LEDs. The project uses register shift and pulse width modulation techniques to control LED brightness using only 3 digital pins from Arduino. Read Digital Value (Digital Read Serial): Using Arduino is the best method to establish serial port communication. In this Digital read series project, Arduino will read digital data provided by the user and the built-in 'serial library' will build serial communication to the user's computer, with which we can see on the screen. Read Analogread Serial: Using Arduino is the best method for building serial port communication. In this analog read serial project, Arduino will read analog data provided by the user and the built-in 'serial library' will build serial communication to the user's computer. Reading Temperature Using I2C, TC04 and Arduino Sensors: The project uses I2C communication along with Arduino, to measure the temperature of 3 different places at a time. It is useful for measuring the inside, outdoor temperature at one time. Remote Controling Heavy LCD TV with Smartphone: In this project, we can control the operation of T.V. LCD by using our smart phone. The tv control mechanism is applied in smartphones using Arduino. by using this module, we can change the channel and change the volume and direction of the television screen. Arduino-based Retro Game Console: This retro game console project is used to design our own games and play games. This module works based on the Arduino. we can use this project for the game console interface while playing games, and can also interact with other electronic devices to control, or to monitor it. RGB Controlled Lamp from PC: The main purpose of this project is to control RGB lamps from our computer using Arduino. The RGB lamp is connected to the system with the module. We can control RGB light by running Arduino sketches in the system. RGB Liquid Crystal Display Tutorial By Arduino: Using this project, we can change the color of the LCD screen. The Arduino board is connected to an LCD screen to control it with Arduino programming. Rocker Scale Measures How Hard You Rock Arduino: Rocker scale is a device that measures the intense level and power of playing rock instruments. The project uses Arduino to measure sound levels using sensors. Rotary Encoder Tutorials Arduino Code: Rotary encoder is an angle measuring instrument used for rotation of the wheel. In this project we use Arduino boards to control the operation of rotary encoders. Secret Knock Detecting Door Lock: This home security-based project is used to lock and unlock doors with a secret tap. When an Arduino board-based project is connected to a door, the sensor detects a knock on the door and if the knock is matched to the order in which the door beats are announced, the key will open. Otherwise the door will be locked. Self-Guide Golf Club Carrier By Arduino: Using this project, we can create a toy car to work as a golf club operator. After unpacking the toy car parts we apply our circuits in the car. The operation of the circuit was then controlled by arduino. Feeling Hot and Cold with Arduino: We can feel hot and cold substances using Arduino. The temperature sensor is connected to the Arduino along with the LED. LEDs are used to represent the temperature of the substance by glowing. Simple Soil Moisture Sensor - Arduino Project: This project is used to detect soil moisture levels. Soil moisture sensors are controlled using Arduino boards. LEDs are used to indicate low humidity levels in the soil. SNF Drumming Midi Glove Using Arduino And Light Sensor: This Arduino-based project is used to produce midi tone music sounds using piezo buzzer and LDR resisters. LDR sensors are arranged in gloves. This LDR sensor is used to produce midi tones by pressing them. Sound Particle-To-Light Light Box: The voice box-to-light project is designed using an Arduino board. In this project we can produce a light effect by providing sound input. Arduino LEDs are arranged in a light box, which will receive sound signals from the surroundings and produce a light effect. Special Umbrella: A special umbrella is an Arduino-based project that will use LEDs and speakers to produce visual effects and sound effects. The IR distance meter sensor is set in an umbrella to measure the distance when approaching a person and then the LED will shine to produce a light effect and the speakers around the umbrella will sound an alarm. Switch A Led On by Push Button: This Arduino project is very simple. When we press the button attached to the Arduino board, the LEDs connected to the Arduino will glow. This means we can turn it on and off (switch LED state) by pressing a button. Temperature Controlled Relay with Arduino: Temperature controlled relay projects are used in the industry to control fan speed depending on their temperature level. The relay is connected to a temperature sensor and a DC fan, which is controlled using arduino sketches. Text Message Based Remote Display: The text message-based LED display project is used to display characters on lcd screens, by sending text messages with GSM modules. Arduino is used to control gsm operation and LCD screens. Arduino powered cocktail maker: The the project is used as a cocktail maker at house parties. This Arduino-based project is used to mix different types of liquor in a certain amount. The amount of alcohol to be mixed is controlled using Arduino. Led Brightness or Fan Speed With Arduino: This Arduino-based project is used to control LED brightness or can control fan speed using Arduino programming. The project uses simple parts such as transistors and potentiometers to control LEDs and fan switching. The Magic Crystal Mood Ball Arduino: This magical mood ball project is based in Arduino, to change its color depending on the user's mood and body temperature. Temperature sensors are used to measure a user's body temperature and they send commands to LEDs to change their color with an increase and decrease in temperature. Mintduino Transfer from Breadboard To Perfboard: Arduino-based project used to change bread boards for use as prefboards. The project uses atmega controllers and reset buttons along with Arduino. Turn Signal Biking Jacket: The main goal of this project is to design a signal jacket using Arduino. The signal jacket will be displayed left and right signals automatically, when the person turns into moving in that direction. The project uses a lilly LED pad along with an Arduino. Turn your Arduino into a Magnetic Card Reader: In this project we use Arduino to read data in magnetic stripes. Now a day, most of the important data is being carried in magnetic cards. So to read the digital data stored in magnetic cards, this is an easier way to build our own and basic magnetic card reader using Arduino. Twitter Mood Light: Arduino can connect directly to any wireless network using the wifi module. So to design twitter mood lights, we use Arduino. in this project we designed LED lights that change their color by collecting tweet information from twitter. Arduino is used to connect LED lights with social media. UAV Spy Plane Using Arduino: In this project we designed an Arduino-based spy plane (UAV - an unmanned Arial vehicle), to navigate through dangerous areas such as the battlefield. It can be used for situation surveillance and also for collecting weather information. Use Potentiometer for Dim A Led (Analog In-Out Serial): The main goal of the project is to design LEDs that can be controlled by the potentiometer th. The current allowed by the potentiometer will control the lighting (wavelength) of the LED bulb. The color of the LED will change with the current (resistance allowed) in the potentiometer. Vibrating Gear Sticks to Help Change Gears: This vibrating gear project will help novice drivers to demonstrate to change vehicle gears. The Arduino-based project monitors the condition of gears that compare vehicle speeds. Arduino will tell the driver to change gears when not at the right gear-speed VK 2wd Electric Car with Arduino: In the VK electric car project, we designed an Arduino controlled electric car. By using the Bluetooth module, we can control this electric car by using our smartphones as well. Web Based Servo Controlled Arduino: A web-based servo controller project designed based on Arduino. Servo motor speed is monitored by Arduino, and by connecting this Arduino to a web server (using our computer) we can control its speed. Blinker Christmas Bell Arduino Website Visitors: This project is used to show us when people visit our web page or website. Bel xmas will tell us to know this by connecting this to a web server using Arduino. The project uses simple hardware components such as and servo motors along with web pages or web servers. Wiimote Controlled Espresso Machine Arduino: This project is a simple coffee machine based on Arduino. Arduino will control the espresso machine using a wii remote. 16×12 Grid Midi Step Sequencer: We can build our own step sequences using Arduino. Although the step sequence has a large array of buttons, we can easily work with it. It has a light grid with built-in LEDs, which can be operated by the user, manually. No need for the system/computer to operate. Connected Thermostats: We all know thermostats are temperature monitoring devices. Because it is connected to the Arduino, the thermostat will continuously monitor the temperature of the room or device. We can visually observe the temperature level by using an LCD screen. Advanced Arduino Sound Synthesis: Arduino is capable of producing waveforms of any shape by varying the time of make time and the space of waveforms. The Arduino clock system has a very high speed (16MHz) so it can produce very high frequency waves. By using Prescalar hardware, we can slow down the shape of high frequency waves. Android-Controlled Beer Tap: Arduino and Android platforms can be combined to keep an eye on beer consumption. Android is used to check and authorize the identity of consumers and then allows Arduino to operate beer taps. Arduino Remote Control Appliance Project: We can control household appliances better than GSM, using Arduino. Arduino connects with the IR receiver and receives a signal encoded from the IR remote. The built Arduino Library will decode received signals and control air-conditioned household appliances, such as switches, fans, and TV sets, etc. Arduino Traffic Light Timing Lesson: The Traffic Light Controller allows you to gain control of your road rage with a sense of understanding! Aquaponics Online Temperature and Humidity: By using Arduino, we can measure and temperature in place via online. The project uses a scalable application platform developed and hosted by Google cloud, Google app Engine. This application needs to be installed in the browser when we monitor the humidity and temperature of a place. List of Other Projects – – –

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