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Who has aquarium knows the importance of lighting for plant growth and for the beauty of the environment. There are several options from many different prices. For a basic aquarium lighting, LED technology can help. The idea is to be as simple as possible, at lower cost and provide adequate lighting to the aquatic environment. It is used as a basic rule the proportion of 1W per liter of water for proper lighting. My aquarium has 120 liters, 100 liters useful. Using the rule, it is expected 100W light for the correct illumination. When searching the Internet, I found led strips, single color (pure white) or RGB, allowing customize the color best suited for your environment. Are sold in rolls of 5m with 300 leds of the model 5050, and with power of 72W. Although 72W is less than 100W, I decided to assemble the solution and the result was excellent for my purposes 5 meters of Led strip RGB 5050 5A 12V power supply 1 RGB Controller They are sold in kits: mts Aluminum profile like picture above. 1 Double-sided tape 50cm - 4 way ribbon wire Tools such as soldering iron, pliers, wire ... I used 1.5m of aluminum profile like a picture above, cut in half and stuck, forming a profile of 75cm with twice the width. I cut the LED strip into several pieces of 75cm to the same extent of aluminum, and pasted inside. Thereafter the weld has been made between the multiple pieces of tapes using the ribbon wire. Once you make the connection, use a black sticker on the other side of the aluminum profile for a better finish. After that, turn on the tape with the 12V supply and select the desired color. Ready light for aquarium simply and inexpensively. These solar powered landscape lights use LED technology to provide a brighter light to illuminate your walk or drive at night. Hampton Bay LED solar landscape lighting is available at The Home Depot in several styles and finishes. TAGS Best New Products LED lighting The Home Depot So this is a double throw, double pole, latching relay. The latching part is what makes this a perfect relay for this project, "Most relays require a small continuous voltage to stay on. A latching relay is different. It uses a pulse to move the switch, then stays in position, slightly reducing the electric power requirement." What I have done here and what I recommend is to mark the sides of the relay to indicate where the pins are because once placed on the board you can no longer see them. First let's place the connectors for the relay, due to its small pins you will have a hard time keeping the relay in the breadboard so using the female breakaway round header pins works very well [image 2]. You will need 8 pins per side. I tried an IC socket but it was actually worse than the breadboard for holding the relay connect the Emitter of the BC547 transistor to pin 2 on the side nearest the battery terminal. The relay can be connected with positive one side or the other, so which side the positive is on doesn't really matter, it just simplifies things for the moment. connect pins 1 and 2 on the other side of the relay to the negative rail [image 2], the 2 blue wires while still on the side where we just connected the negative wires connect the 3rd pin to the lower positive rail connect a jumper wire to the 1st pin on the opposite side of the negative wires, leave it loose for now the 4th pin on the relay can be left unconnected or for testing purposes, you can connect a resistor and LED from it to the negative rail. This one is only turned on when you want to turn the main light off. This site is not available in your country When the destruction of walls was finally finished I had to put isolation on the ceiling. Now the ceiling is ready to put the non-combustible pipes for electric installation. While I was getting already finished I was preparing myself to putting the dry-walls to ceiling. Next day, when I was finished with all of that I drilled holes into ceiling for built in spot lights. Had to drilled 30 of them and two bigger on hallway. For drilling I used Crown fi 68mm (spot lights) and a small handsaw for lights on hallway (fi 19,5 cm). Then I separated the living room from dining room and kitchen with a small wall made from siporex stone 20cm wide. I integrated 3 switches in wall, which are separating turning on and of the lights in dining room, computer place and living room. Than I used small handsaw to cut the drywall in kitchen to prepare 7 meters long aluminium for led stripe to cool itself (pics 8,9,10,11) On the next step I will do pretty much the same thing in bedroom. I don't want to lose too much words on witch specific tools and materials I needed to paint the walls or cover the dry-wall junctions (the picture says enough). I just want to show you how I was doing it and what I was doing it. D Traffic lights appear in our lives every day, which is essential for us to cross the road. This LED traffic light can let children know how it works and the importance of following it. The website source: LEDs (recommended colors: green, yellow, red) 3 110 ohm resistors! Arduino Leonardo 1 x USB cable 1 x breadboard Connecting the first wire to GND then the second wire to -6V, the third one to 8V, the fourth one to -10V. After connecting all the wires connect LED lights red yellow and green and three 220-ohm resistors. You can connect wires at different place unless connect at the right places. After setting up the LED lights, we need to do the software. The following website was my code: three LED light like a real traffic light on the road. Video Playback Not Supported Unlike standard incandescent bulbs, LED lights (Light Emitting Diodes) don't have a filament that will burn out, so they last a very long time. In fact, you could burn an average LED eighteen hours a day for almost 8 years before it would stop working! An LED bulb will even outlast most compact fluorescent bulbs. So, why aren't we using them more? Well, unfortunately, they're still too expensive to manufacture for most lighting applications. There are a few companies making accent light fixtures, and the costs are coming down, so I predict you'll have plenty of low-cost LED lights for every room in your house to choose from very soon. Since this flash light wasn't used a lot and sat for a long time on the shelf the battery had lost most of its capacity. I had this new 6volt cell lying around, but you can pick a new one up for about \$6-7. To replace the battery you have to simply remove four screws and remove the bracket, and lift the battery out. Once it is out you can slowly lower in the new battery and replace the bracket, screws and wires in the same way (red is positive and black is negative).





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