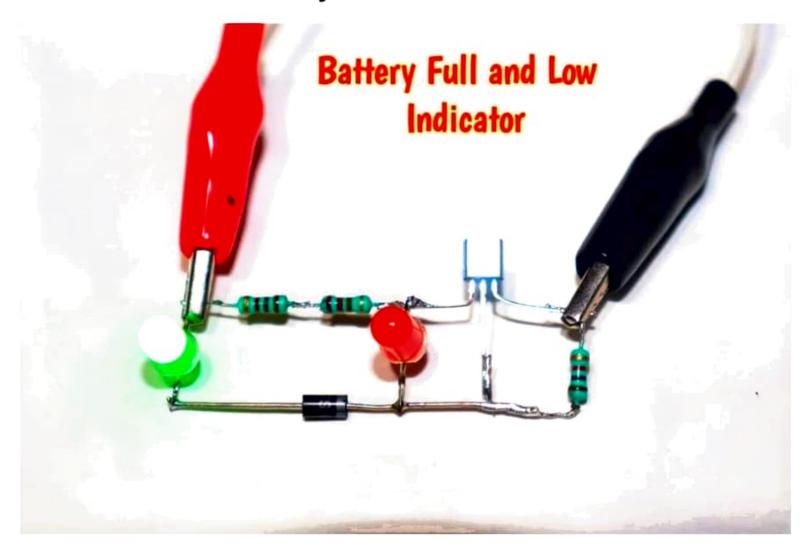
3.7V Battery Low and Full Level Indicator Circuit

Introduction: 3.7V Battery Low and Full Level Indicator Circuit



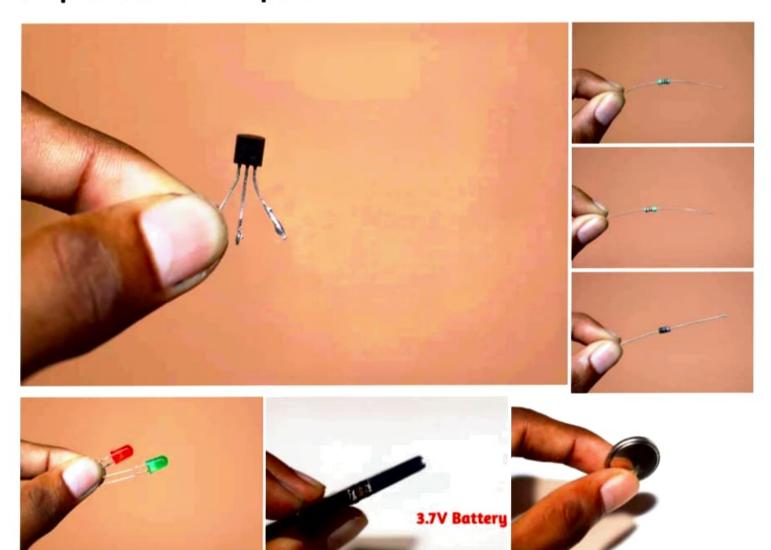
Hii friend,

Today I am going to make a circuit of 3.7V Battery low and full charge indicator.

Let's get started,

77/24, 11.107/M

Step 1: Take All Components As Shown Below



Components required -

- (1.) Transistor BC547 x1
- (2.) Resistor 1K x2
- (3.) Resistor 220 ohm x3
- (4.) pn-Junction Diode 1N4007 x1
- (5.) LED 3V x2 (Red for Low charge indication and Green for Full charge indication)
- (6.) Battery 3.7V and 3V

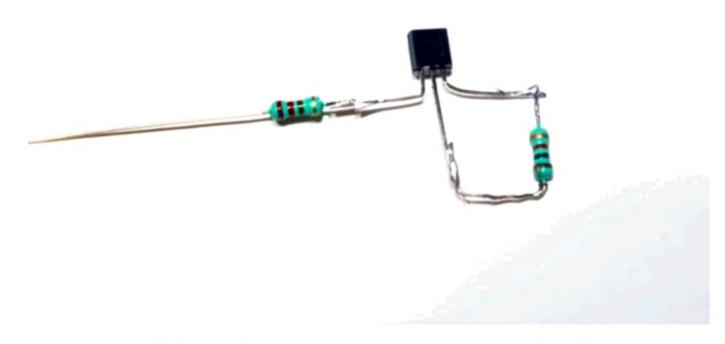
Step 2: Connect 1k Resistor



Firstly we have to connect 1K resistor to Base and emmiter pin of the transistor as solder in the pictur

5.7 V Battery Low and Pull Level Indicator Circuit . 9 Steps (with Pictures) - Instructs

Step 3: Connect 220 Ohm Resistor



Next solder 220 ohm resistor to collector pin of the transistor as you can see in the picture.

Step 4: Connect 1K Resistor Again

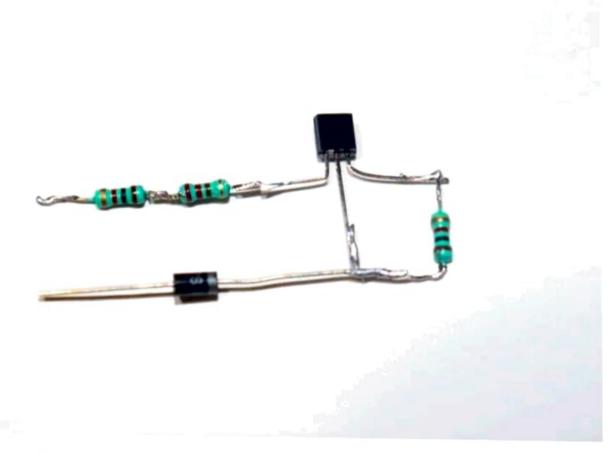


Next we have to connect 1K resistor again.

Solder 1K resistor in series to 220 ohm resistor as solder in the picture.

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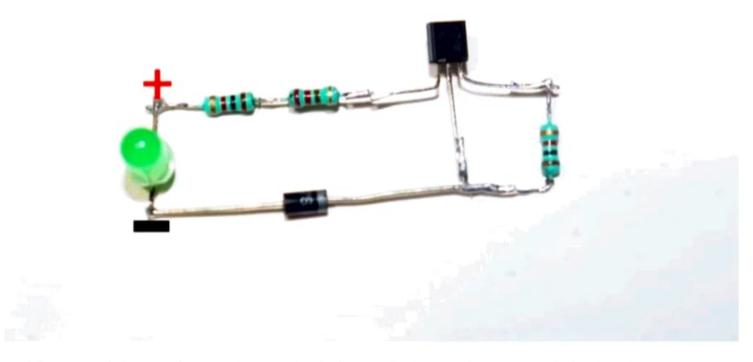
Step 5: Connect 1N4007 Diode



Next connect 1N4007 Diode to the circuit.

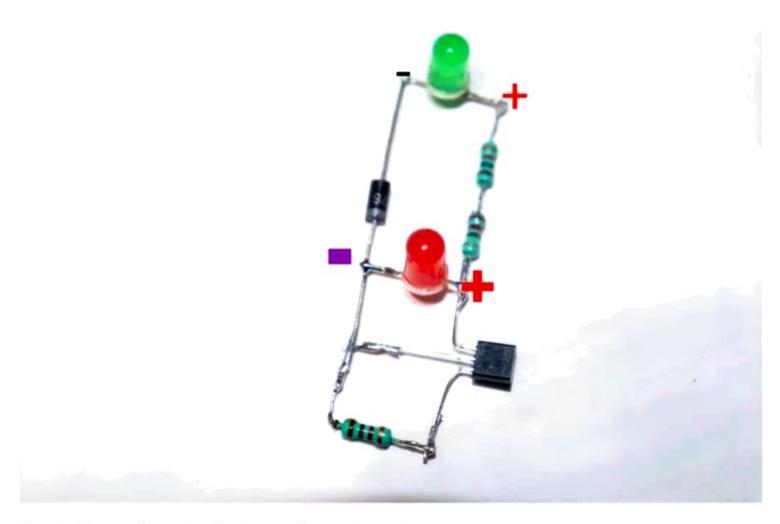
Solder -ve of Diode to base pin of Transistor as picture.

Step 6: Connect Green LED



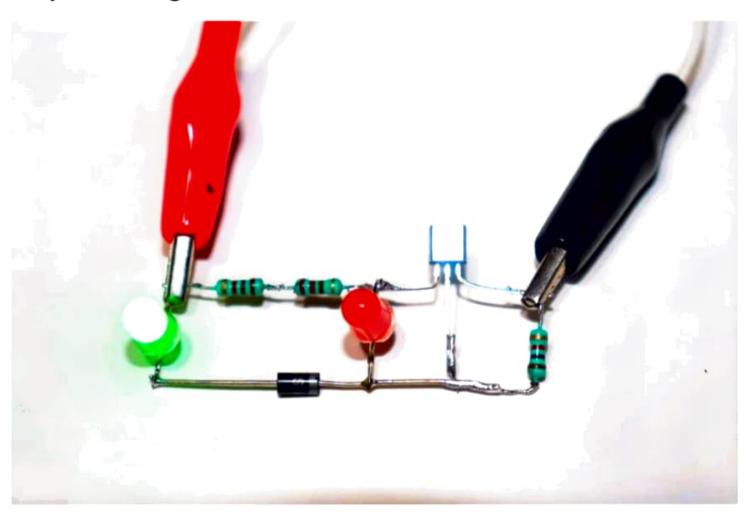
Next Solder +ve leg of green LED to 1K resistor which is connected to collector pin of transistor and solder -ve pin of green LED to +ve of diode as you can see in the picture.

Step 7: Connect Red LED



Next Solder +ve leg of Red LED to Collector of transistor and solder -ve leg of Red LED to -ve of diode as solder in the picture.

Step 8: Testing - 1

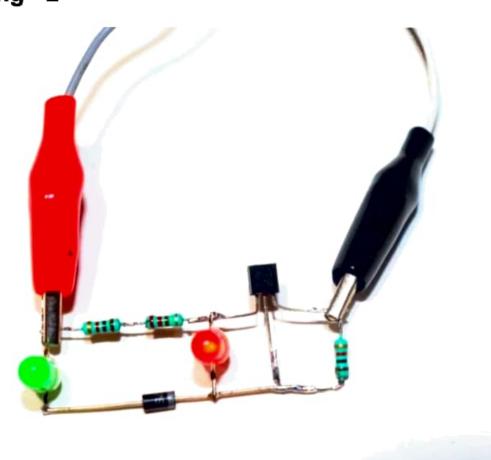


Now our circuit is completed and now we have to check this circuit.

Connect +ve of 3V battery to +ve leg of green LED and -ve of 3V battery to emmiter pin of the transist or as you can see in the picture.

~ As in abouve picture glowing Green LED Because this battery is fully charged.

Step 9: Testing - 2



When I connected 3V battery then Red LED is glowing and Green LED is also glowing in small amoun t.

~ Hence when Battery will be full charge i.e. 3.7V then Green LED will glow only and when battery will be low i.e. 1.5V then Red LED will glow only.

Thank you