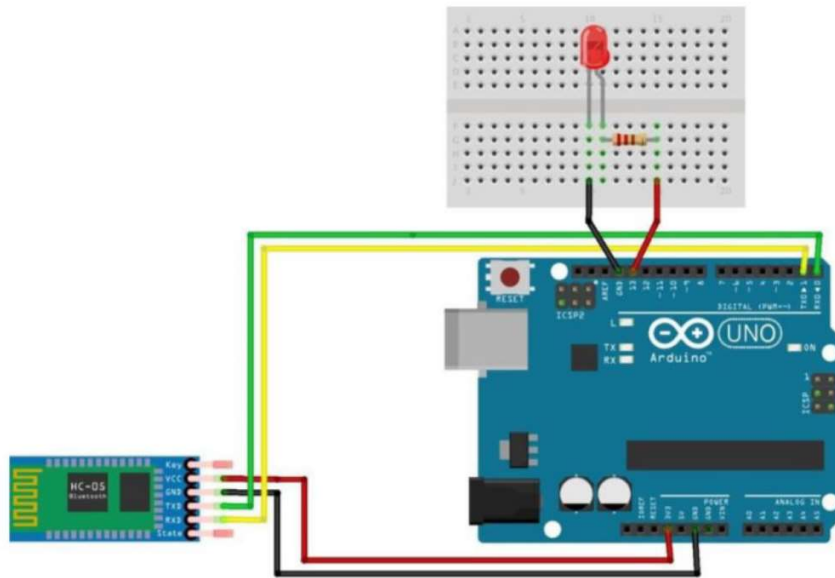


Design a smartphone controlled light system.



Concept Used :-

1) This Experiment is the pure blend of the Bluetooth, Smartphone and the concept we used before i.e., LED Flasher.

2) In the Experiment we used a Bluetooth IC to flash the LED in Breadboard to glow.

3) Concept Used in this experiment is how the Bluetooth IC is to be

connected to the Arduino so that signals can easily be transferred and

received.

4) A circuit is made using Bluetooth and arduino. Tx of Bluetooth is connected to 0 of arduino.

5) Ground of Bluetooth is connected to ground of arduino. And VCC (high voltage) is connected 5V of arduino.

Learning and Observations :-

1. Concept of Understanding of Transfer and Receiver.
2. Connection need to be made to execute the experiment.
3. Connecting Bluetooth to arduino.
4. Ground of Bluetooth is connected to ground of Arduino
5. Signals are transmitted from Bluetooth to arduino.
6. Bluetooth receives the signals by Rx(0) an abbreviation used for Receiver.
7. Coding to be done on Arduino.exe for stimulation of the experiment.

Problems and Troubleshooting:

- Making a functional was a bit time taking as it becomes a bit confusing on arranging the wires.
- Minors errors showed up in the code during the test run, which was trouble shooted by the correcting the above.

Precautions :-

1. Connection of the Tx and Rx pins respectively.
2. Use of multimeter for checking whether the device is damaged.
3. The coding done can be incorrect due to which stimulation can be failed.
4. Port Selection for Arduino can be incorrect due to which it won't upload on Arduino Board and resulting in failure of experiment.

Learning Outcomes: -

1. Making connection of Bluetooth and Arduino Board.
2. Connecting bluetooth and Arduino.
3. Using and making correct connection of Tx and Rx.
4. Working and coding of Arduino.