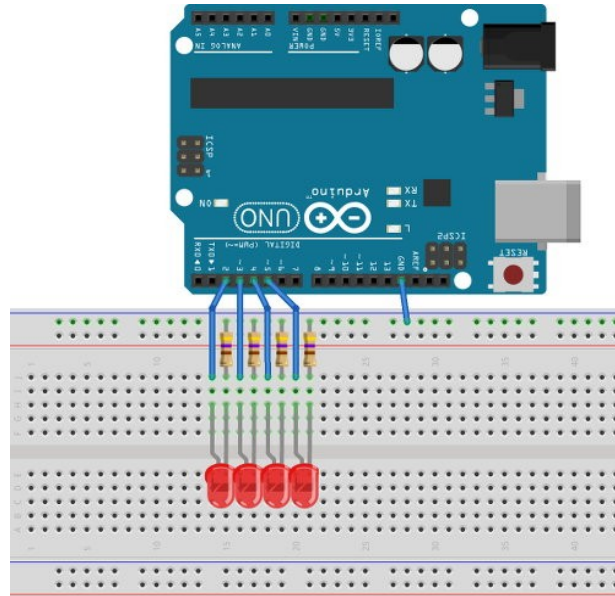


EXPERIMENT 3- LED Chaser

Circuit Diagram :



Theory:

Arduino UNO is a device which have a microcontroller on it, which is based on the microchip atmega328. It has 14 digital input/output pins and 6 analog input pins. To perform this experiment we need arduino UNO , breadboard ,connecting wires, resistance and 4 LEDs.

Concept used:

We connect our 4 LEDs in the breadboard and with the help of wires we make a circuit between LEDs and arduinoUNO. For a complete circuit we need a potential difference so we connect the end with GND(Ground) pin in the arduinoUNO as shown in the given diagram.

After making our hardware we have to go to arduino IDE ,select desired port and board from tools. After doing this we have to write our program.

Learning and Outcomes:

Learn how to make different patterns with multiple LEDs.

Problems and Troubleshooting:

- 1- If some LEDs can't glow :

Solution-Check the pin no. on arduino and also the code written on arduino IDE.

- 2- If your program can't run:

Solution-check the port and board which you have selected from tools.

Precautions:

- 1- Check the pin numbers correctly on the arduino board.
- 2- Select the desired port and board from tools.

Learning Outcomes:

Learn how to make different patterns on multiple LEDs using arduinoUNO.