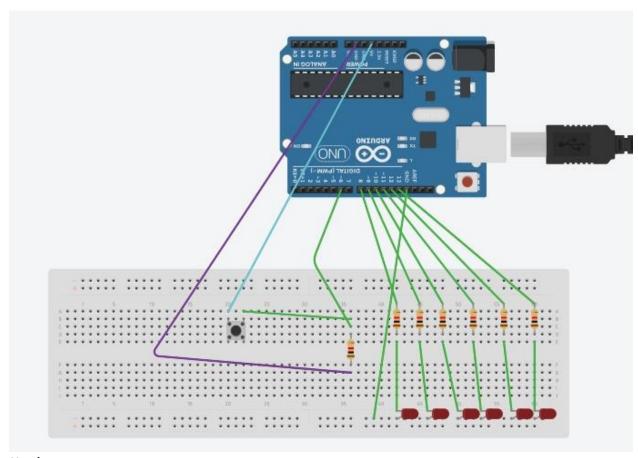
Aim:To design automatic led chaser (consisting of 6 led's)to generate teo patterns which can be toggled with switch

A.pattern 1-led chaser

B.pattern 2- even,odd led's

Circuit diagram:



Hardware components:

- 1. Arduino UNO ×1
- 2. 5mm led ×6
- 3. Breadboard×1
- 4. Jumper wires
- 5. Switch×1

Theory: In this experiment we have done coding to blink LED, which is held together on the breadboard.

Learning and Observations: The coding is done on computer from which the instructions are given to the Arduino Uno board. Arduino is a single board microcontroller meant to make the application more accessible which are interactive objects and its surroundings.

Procedure:

- Take 6 led of different colours.
- Take one switch.
- Connect the cathode end of all led's to the GND pin of arduino.
- Connect the anode pin of all led's with each resistor connected to the end.
- Now connect the resistor ent to pins of arduino.
- And connect switch with circuit.
- Do all connections same as circuit diagram.

Problems of trouble shooting:

- 1. The incorrect coding might cause problems in the working of hardware .
- 2. Hardware should be correctly fitted on the breadboard or they might get fuse or damaged.
- 3. Arduino wire must be checked if they are losse or not and the ports should be properly cleaned before using they might cause problem in program.

Precautions:

- 1. The coding done on the software should be correct in every manner. All the errors should be avoided i.e. syntax logical errors etc.
- 2. All the wires and elements should be connected tightly and according to the coding done on system.
- 3. Positive and negative terminals should be put in correct order.

Learning outcomes: from this experiment we have learn how to code in the software this project was the piller for the upcoming project .