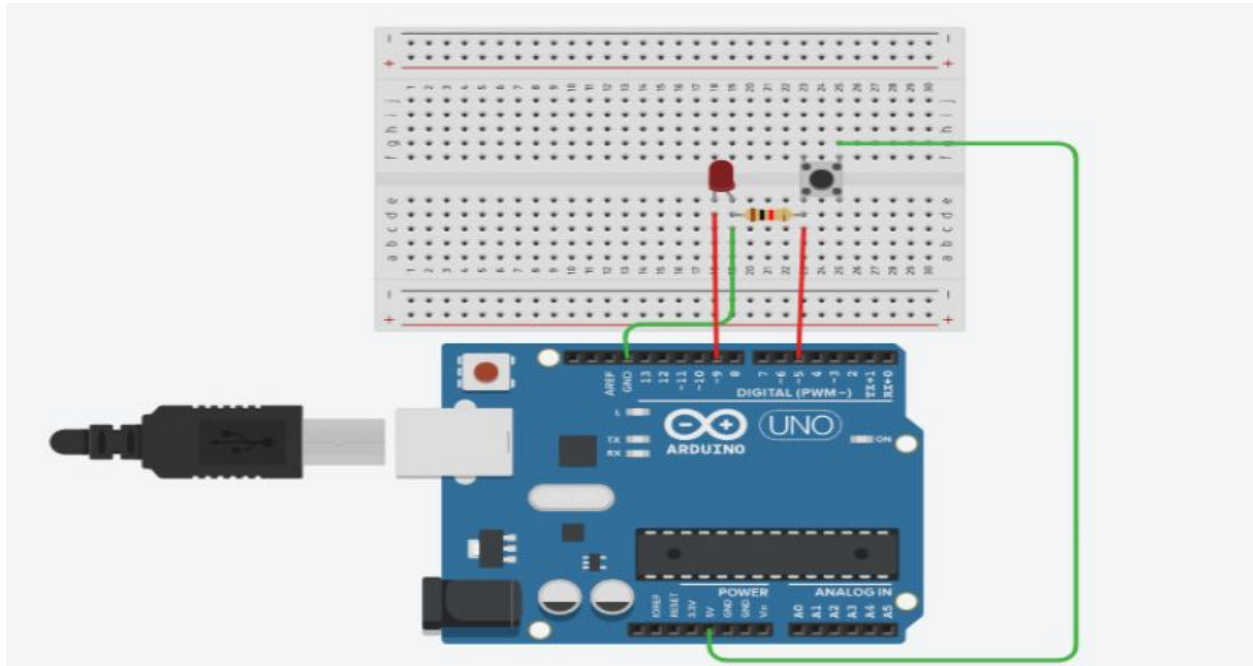


Exp-5 Design a night lamp



Concept Used :

A circuit consists of 2 digital pins are used where a pin i.e., 7 making connection of LED with Arduino and further making the connection to the ground. Now another pin i.e., 12 is connected to switch. One end of the switch is connected to 5V supply and intersection of pin 12 and switch is connected to resistor which is connected to ground from another end.

Value of resistance is very high. The resistors are used to resist the flow of current. Coding is done in such a way that when switch is pressed the LED glows.

Learning and Observations : -

1. Basic understanding of the electrical connection.
2. Making circuits using Arduino.
3. Connecting LED and switch with arduino.
4. Ground has least resistance.
5. Working of Arduino UNO.
6. Coding to be done on Arduino.exe for stimulation of the experiment.
7. How does Toggling works.

Problems & Troubleshooting: –

No problem occurred during the execution of the experiment.

Precautions :-

1. Making Correct connection.
2. Using Multimeter to check whether all the devices are in working condition or not.
3. Correct sets of instructions are provided or not to perform the specific function.

4. Port Selection for Arduino can be incorrect due to which it won't upload on

Learning Outcomes: –

1. Setting up correct connections to the arduino.
2. Connecting switch, LED and Arduino.
3. Using switch and LED.
4. Working and coding of Arduino.

Result: –

Working of buzzer and switch verified after uploading the program. Doorbell is ready to ring.

