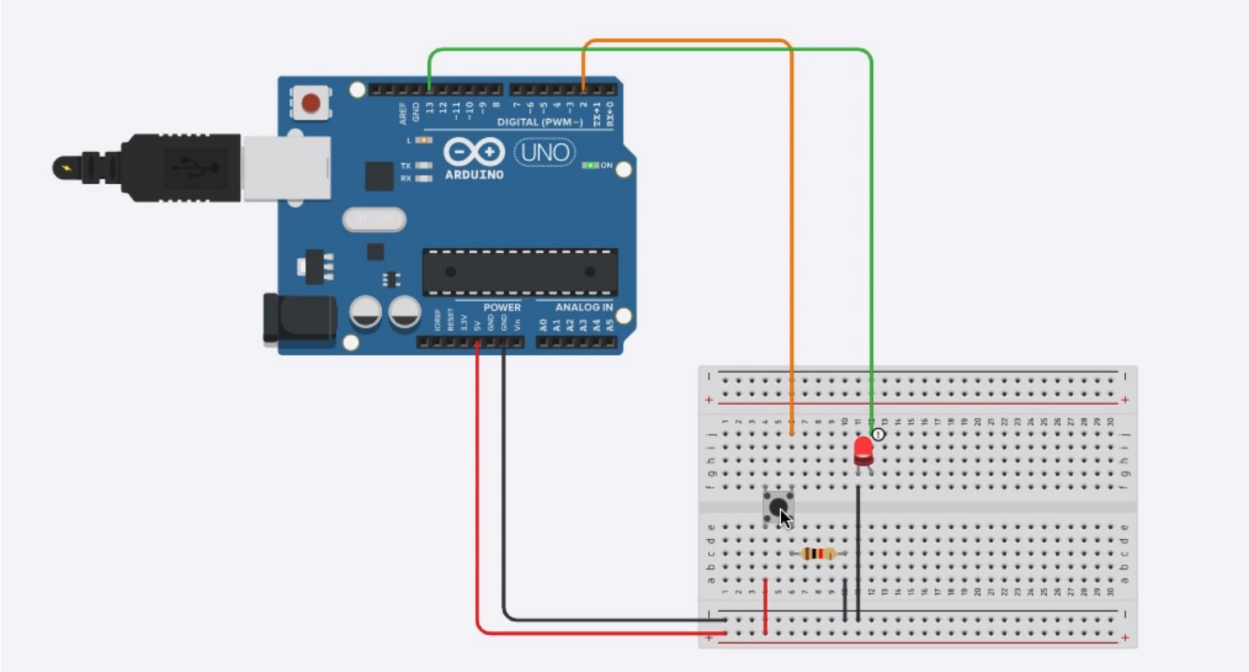
Exp. 3 Doorbell

Circuit Diagram:



Concept Used: A **push-button** (also spelled **pushbutton**) or simply **button** is a simple switch mechanism for controlling some aspect of a machine or a process.

Learning & Observations:

1) We learned how a push button works and how to use a push button in your circuit. Here, we are controlling the LED using Push Button.
2) A Push Button is a type of switch which shorts or completes the circuit when it is pressed. It is used in many circuits to trigger the systems.
3) A spring is placed inside it to take it back in initial or off position as soon as the button is released .

Problems & Troubleshooting

1. Some errors in the circuit like connection of wires to the wrong ports were to be corrected in order to attain a working circuit.

2. Errors in the code for pin connections occurred that were resolved after some corrections.

Precautions

- Check connections twice.
- Grounds should be connected, unless you know you want them separated.
- Don't plug in an LED without a current limiting resistor.
- Don't plug it into unknown circuit.

Learning Outcomes

• Familiar with Arduino environment and its applications.

• Getting familiar with the working of light sensor.

• Able to Design Smart systems applications.