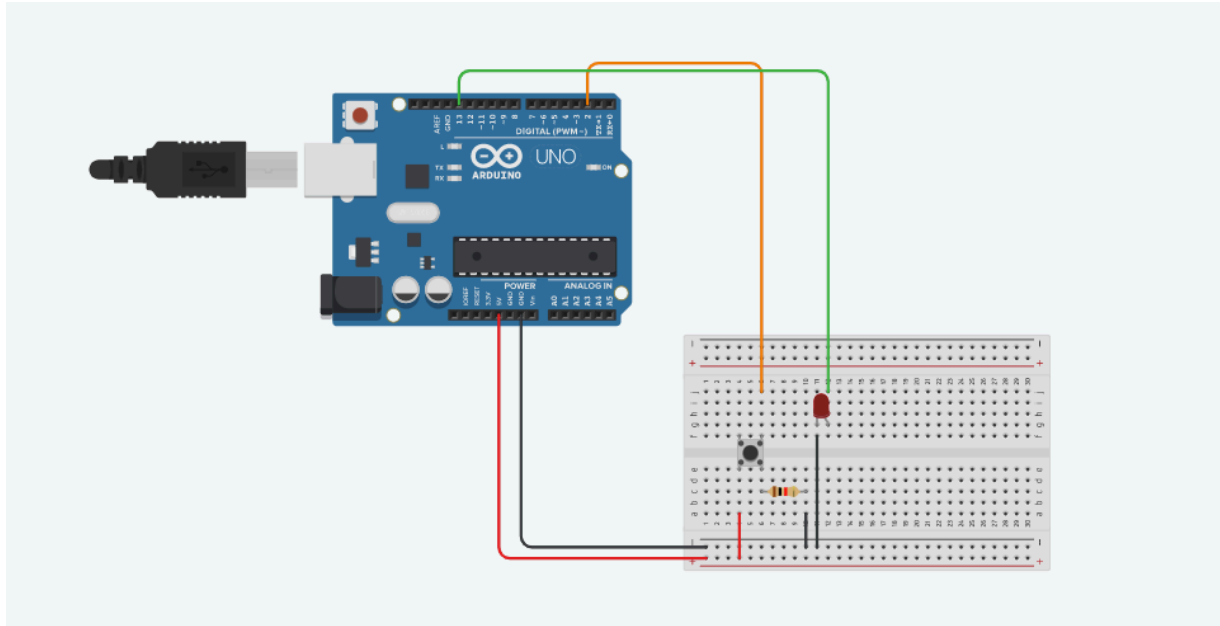


Exp. 3 Door bell

Circuit Diagram:



Theory:

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: we learned how a push button works and how to use a push button in your circuit. Here, we are controlling a LED using Push Button. 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. 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 every connection 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.