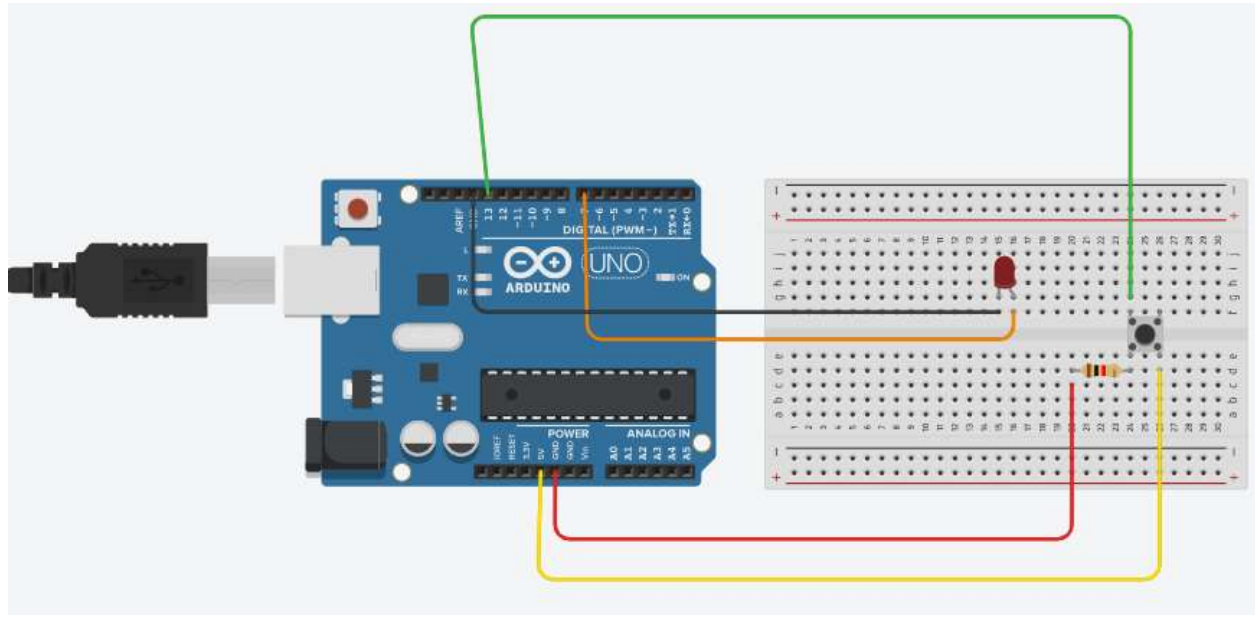# Exp. 3 Door bell using push button

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 a 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 practical use of switch.
➢ Able to Design Smart systems applications.