

---

# BEEE

# LAB

**Experiment-2-Door Bell**

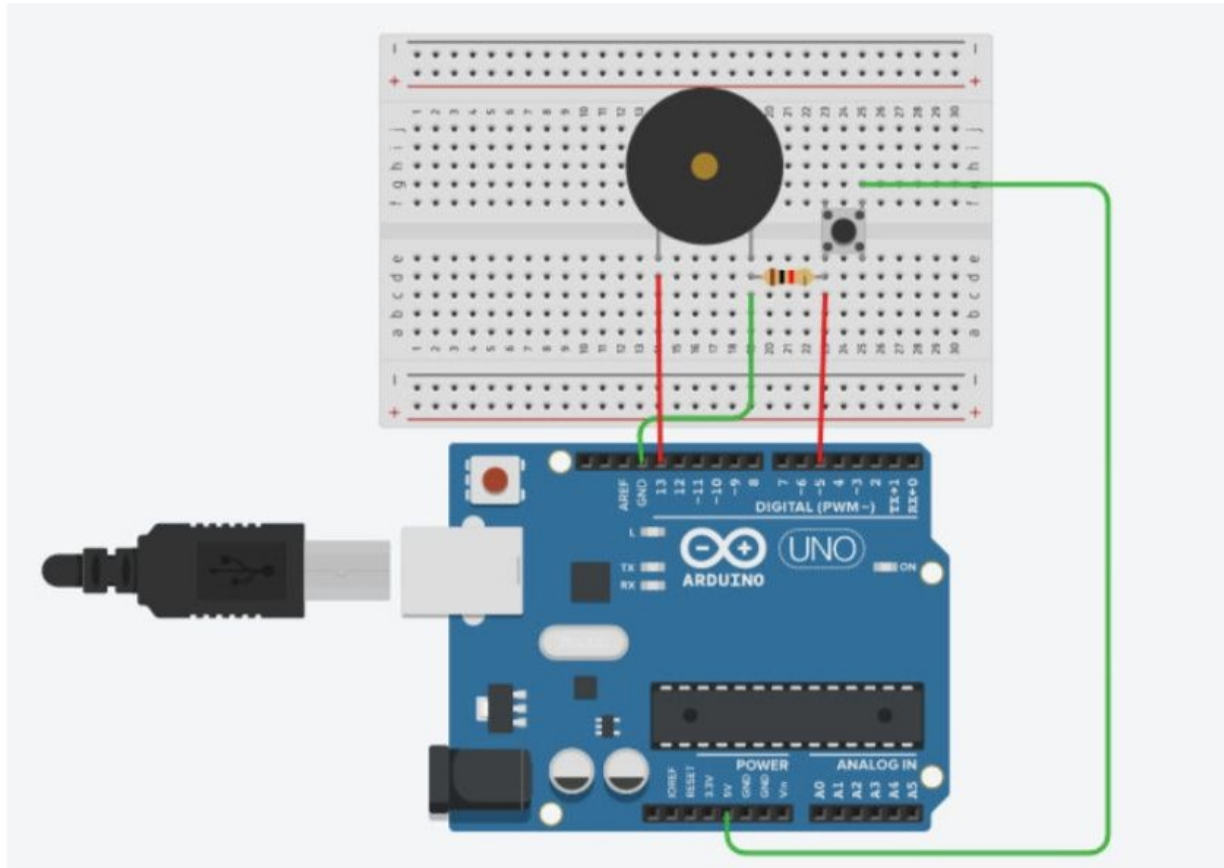
Name : Shlok Jaiswal

Course: Btech(CSE)

Sec : CSE-AIML-2

UID : 19BCS6139

# Door Bell



## Concept Used :-

*This Experiment shows the working of Doorbell using Buzzer by Arduino. A circuit consists of 2 digital pins are used where a pin i.e., 7 making connection of buzzer 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 buzzer starts making sound and again when switch is pressed buzzer do not make any sound.*

### **Learning and Observations : -**

- 1. Basic understanding of the electrical connection.*
- 2. Making circuits using Arduino.*
- 3. Connecting buzzer and switch with Arduino.*
- 4. Ground has least resistance.*
- 5. Working of Arduino UNO.*
- 6. Coding to be done on Arduino IDE 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*

### **Learning Outcomes: -**

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

### **Result -**

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