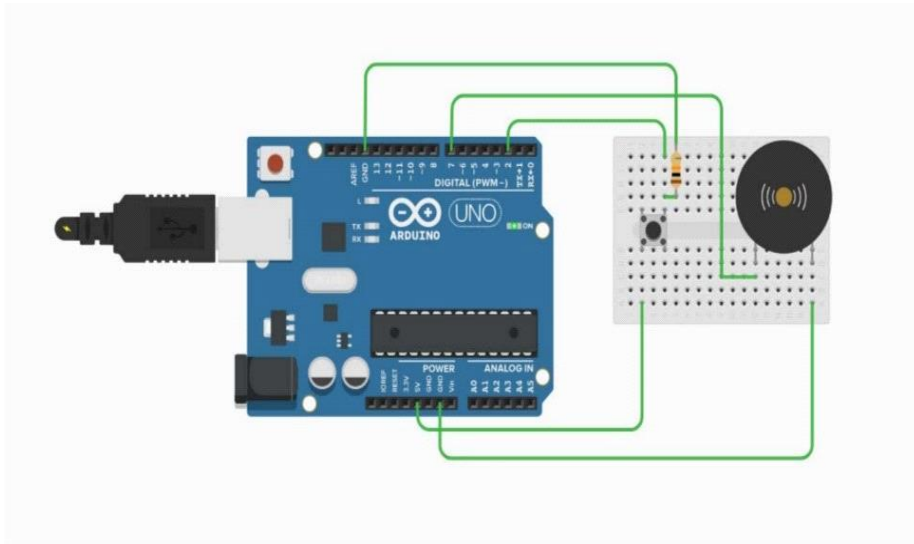


Exp.4 Design a door bell using push button.  
Circuit Diagram:



## Theory:

Concept Used:

- The non-ideal behavior of the contacts that creates multiple electrical transitions for a single user input.
- Switch inputs are *asynchronous* and are ***not electrically clean***.
- Inputs from a switch are electrically cleansed with a switch debouncer.

## Learning & Observations:

- Working of Arduino
- Coding for Arduino using C language
- Switch execution

## Problems & Troubleshooting:

- Port selection
- Loose connections
- Error in coding

**Precautions:**

- Connections should be tight
- Port and board selection should be correct
- Code should be written properly

**Learning Outcomes:**

Door bell using push button was verified after uploading the program.