**Exp. 3 Design a door bell using push button.**

**Circuit Diagram:**

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**THEORY:-**

**Concept Used:-**

* We have used push button as a switch as it can close and open the circuit at the user’s will.
* In Breadboard, the rows on top and bottom are connected in series whereas in middle the connections in columnwise.
* When push button is pressed, it sends input signals to arduino and arduino sends signals to ring the bell.

**Learning and observation:-**

* I have learned how we can use switch to operate different devices.
* I have learned how to open and close the circuit using push button
* I have learned how to make a door bell using arduino,buzzer and breadboard.

**Problem and troubleshooting:**

* There was problem while uploading code to Arduino , as the port selected was incorrect hence, to solve it. I change the port.
* Connections were loose.I have to make them tight.
* The code was wrong. I had to find the mistake and rectify it.

**Precautions:**

* Arduino Board should be kept at dry place.
* Correct Board/Port is to be selected.
* All connections should be tight.
* Input pins should be selected according to the use.

**Learning outcome:**

* I learned how we can use a simple switch to make a door bell.
* I also gained some basic knowledge of arduino.
* Understand the logic how to use buzzer in an appropriate manner.