### **EXPERIMENT**

# DOOR BELL USING PUSH BUTTON AND ARDUINO

## **CIRCUIT DIGRAM:**

#### THFORY:

### **CONCEPT USED:**

- KIRCHOFF'S VOLTAGE LAW
- **KIRCHOFF'S CURRENT LAW**
- **BUZZER BUZZING CONCEPT**

#### **LEARNING & OBSERVATION:**

- CONNECTIONS IN BREADBOARD AND WIRING
- TO FORM DIFFERENT PATTERNS FROM LEDS
- HOW TO CONTROL ARDUINO & ITS CODING
- BUZZER CONCEPTS

### **OBSERVATIONS:**

- **CONTROL OF BUZZER ON PUSH BUTTON**
- **\*** RELATION BETWEEN SOFTWARE AND HARDWARE
- **AUTOMATION OF A DEVICE USING A PUSH BUTTON**

## PROBLEMS AND TROUBLESHOOTING:

- **✓ TO SELECT THE RIGHT PORT AND TYPE OF ARDUINO**
- **✓ TO CHECK THE LOOSE CONNECTIONS**
- **✓ TO CHECK THE CONTINUITY OF CIRCUIT**
- **✓ TO CHECK THE FLOW OF CURRENT**
- **✓ TO CHECK THE CONNECTIONS ACCORDING TO THE CODES**
- √ TO CONNECT THE RIGHT PINS IN THEIR RESPECTIVE PINMODES ACCORDING TO THE CODES.

### **PRECAUTIONS:**

- HANDLE THE COMPONENTS CAREFULLY
- AVOID CONNECTING ARDUINO TILL THE CIRCUIT IS COMPLETE
- CONNECT THE LEDS WITH A RESISTANCE TO AVOID DAMAGE
- DON'T PLUG THE COMPONENTS INTO UNKNOWN CIRCUITS AND MODES

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