

4)PUSH BUTTON SWITCH INTERFACE -DOOR BELL CONTROL(CODE)

```
const int switchPin = 2;

const int bellPin = 7;

int bellState = LOW;

int switchState=LOW;

int lastswitchState = LOW;

unsigned long lastDebounceTime = 0;

unsigned long debounceDelay = 10;

void setup() {

  pinMode(switchPin, INPUT);

  pinMode(bellPin, OUTPUT);

  digitalWrite(bellPin, bellState);

}

void loop() {

  int reading = digitalRead(switchPin);

  if (reading != lastswitchState) {

    lastDebounceTime = millis();

  }

  if ((millis() - lastDebounceTime) > debounceDelay) {

    if (reading != switchState) {
```

```
switchState = reading;

if (switchState == HIGH) {

    bellState = !bellState;

}

}

}

digitalWrite(bellPin, bellState);

lastswitchstate=reading;

}
```