

IOT LAB 49+50

22MIA1062

PRIYANSHU TEOTIA

EXPERIMENT 1

AIM : To glow the led

PROCEDURE:

Circuit Connections:

1. **Connect the LED:**

- The **longer leg (anode, +)** of the LED connects to **pin 7** on the Arduino through a **220-ohm resistor**.
- The **shorter leg (cathode, -)** of the LED connects to the **GND (ground)** pin on the Arduino.

Steps to Upload the Code:

1. **Connect the Arduino Uno** to your computer using the USB cable.
2. **Open the Arduino IDE** on your computer.
3. **Select the correct board and port:**
 - Go to **Tools > Board > Arduino Uno**.
 - Go to **Tools > Port** and select the port corresponding to your Arduino.
4. **Copy and paste** the code into the Arduino IDE.
5. Click on the **Upload (right-arrow) button** to upload the code to the Arduino.

Testing the Circuit:

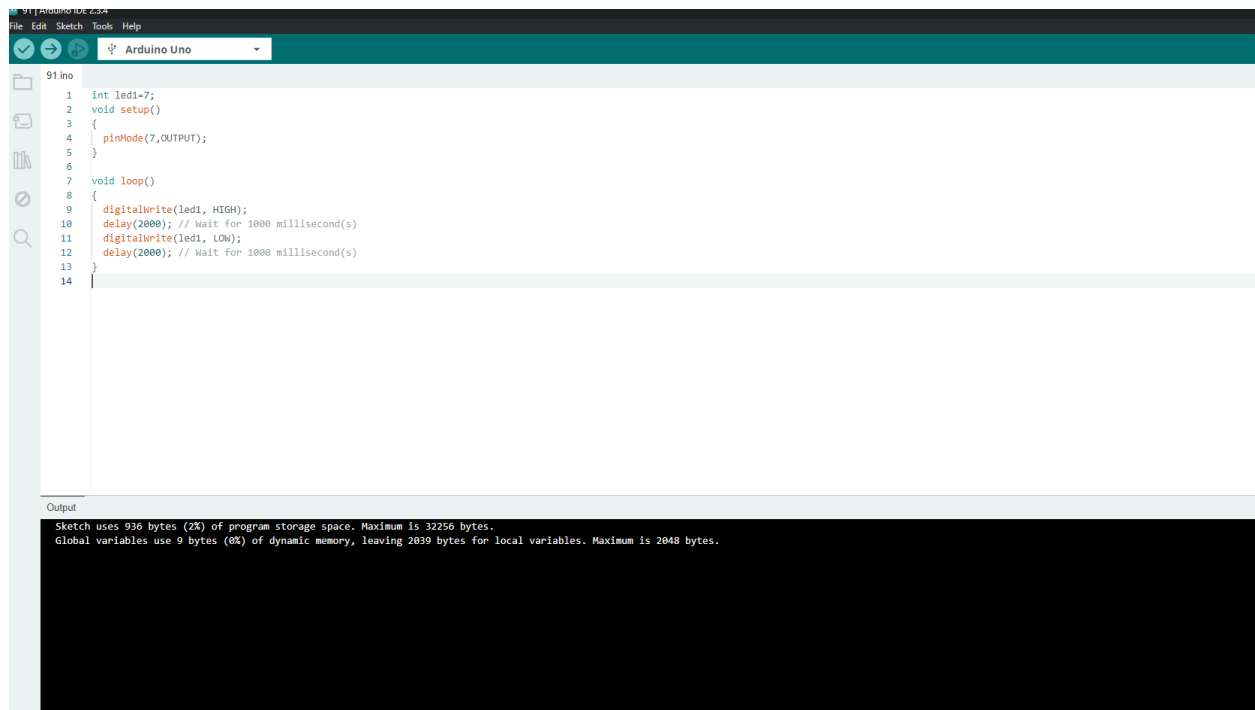
- After uploading the code, the LED should:
 - **Turn ON for 2 seconds.**
 - **Turn OFF for 2 seconds.**
 - This sequence will **repeat continuously**.

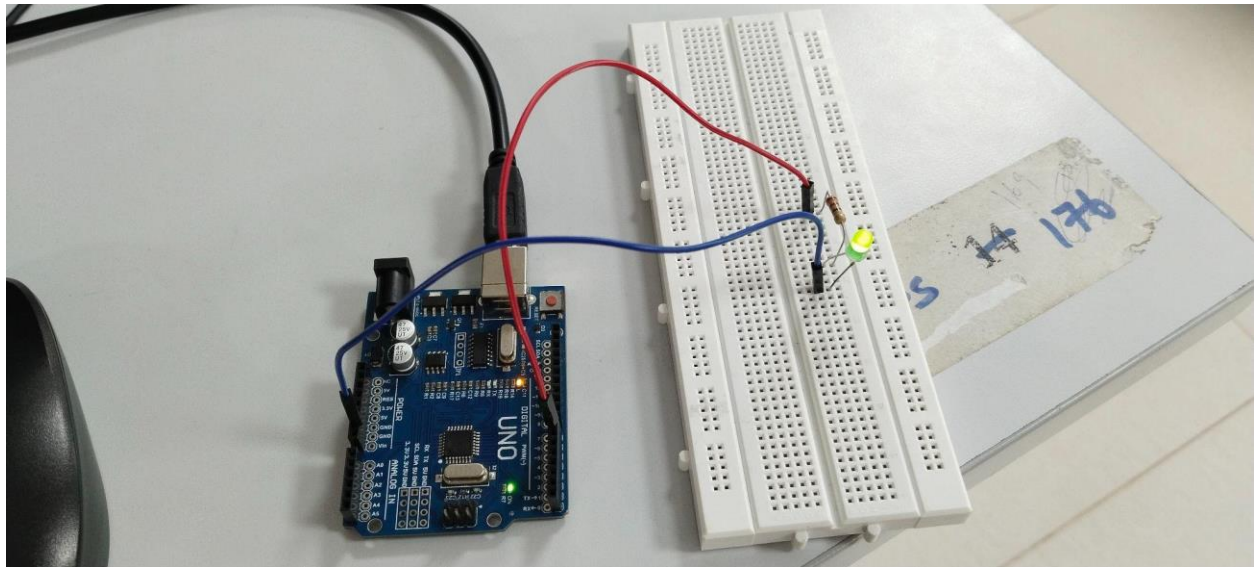
INPUT:

```
int led1=7;
void setup()
{
  pinMode(7,OUTPUT);
}
```

```
void loop()
{
  digitalWrite(led1, HIGH);
  delay(2000); // Wait for 1000 millisecond(s)
  digitalWrite(led1, LOW);
  delay(2000); // Wait for 1000 millisecond(s)
}
```

OUTPUT:





RESULT: hence, the led bulb will glow successfully.