

Program no 02

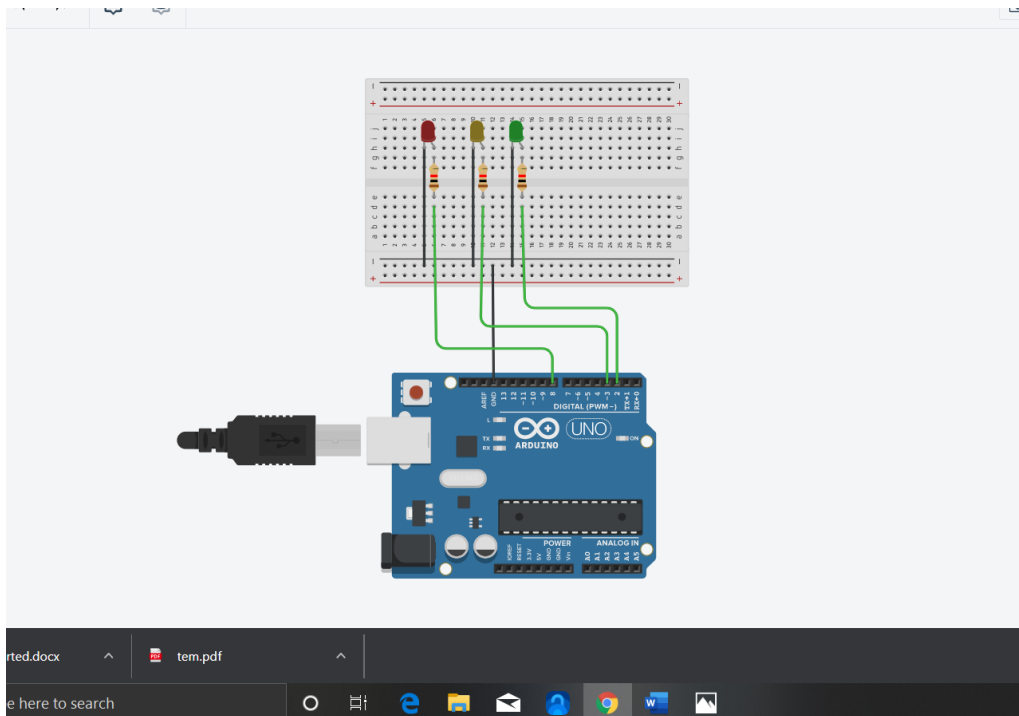
Program Title Traffic light

Aim

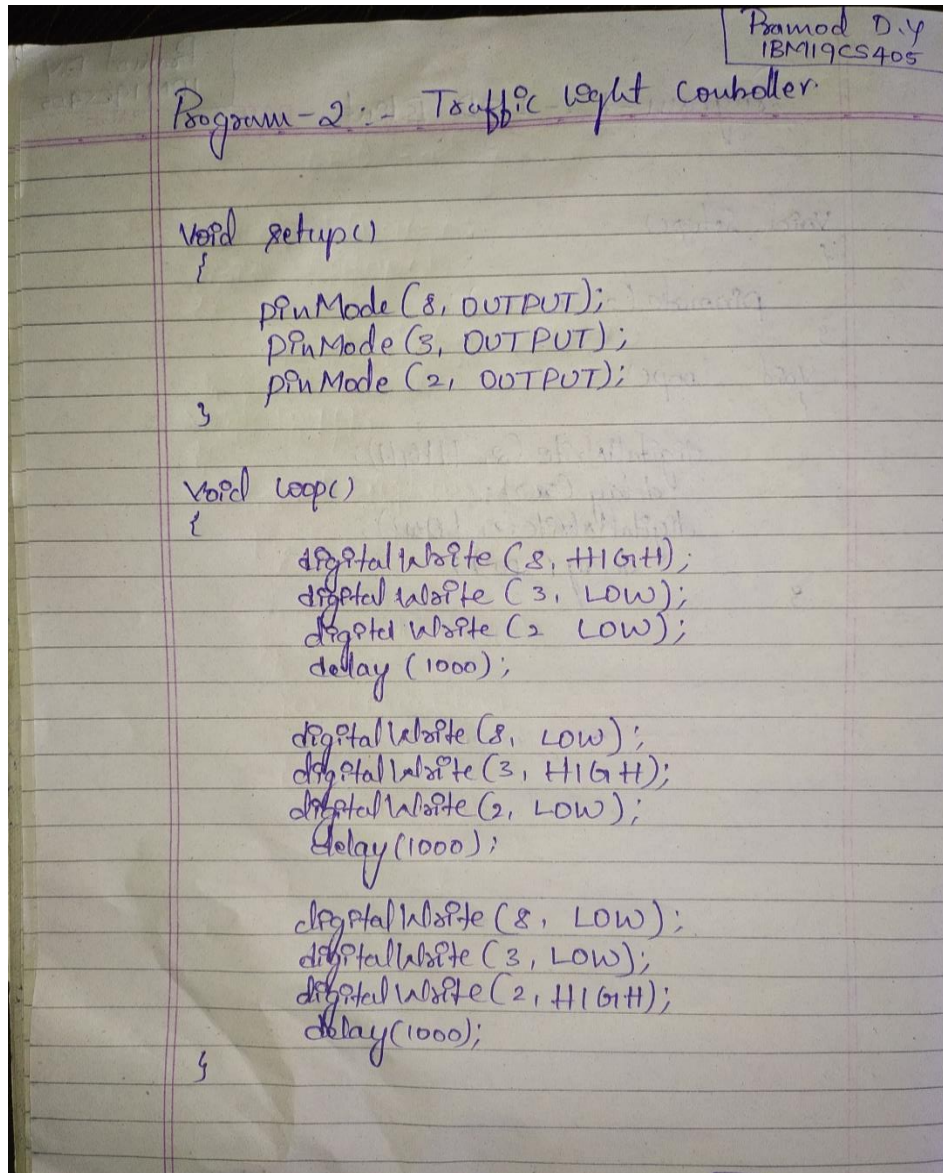
Hardware Required

- Arduino Board
- Red, Yellow and Green LED
- Resistor

Circuit Diagram



Code:



Observation /Output

The screenshot displays a Tinkercad workspace titled "Traffic light". On the left, a breadboard circuit is shown with an Arduino Uno connected to three LEDs. The LEDs are connected to pins 8, 3, and 2 of the Arduino. The circuit is designed to simulate a traffic light sequence. On the right, the code for the simulation is displayed in a text editor. The code defines the setup and loop functions, controlling the LEDs to simulate a traffic light sequence. The code is as follows:

```

1 void setup()
2 {
3   pinMode(8, OUTPUT);
4   pinMode(3, OUTPUT);
5   pinMode(2, OUTPUT);
6 }
7
8 void loop()
9 {
10  digitalWrite(8, HIGH);
11  digitalWrite(3, LOW);
12  digitalWrite(2, LOW);
13  delay(1000); // Wait for 1000 millisecond(s)
14
15  digitalWrite(8, LOW);
16  digitalWrite(3, HIGH);
17  digitalWrite(2, LOW);
18  delay(1000); // Wait for 1000 millisecond(s)
19
20  digitalWrite(8, LOW);
21  digitalWrite(3, LOW);
22  digitalWrite(2, HIGH);
23  delay(1000); // Wait for 1000 millisecond(s)
24 }

```

The bottom of the screenshot shows the Windows taskbar with the system clock at 23:07 on 28-10-2020.