ACTIVITY 4

Traffic Light Signals:

Task:

- Design traffic signals containing Red, Orange, and Green lights.
- The traffic light stays in the Red state for 5sec, Green state for 5 sec and takes 2 sec to change from Red to Green i.e Orange state.
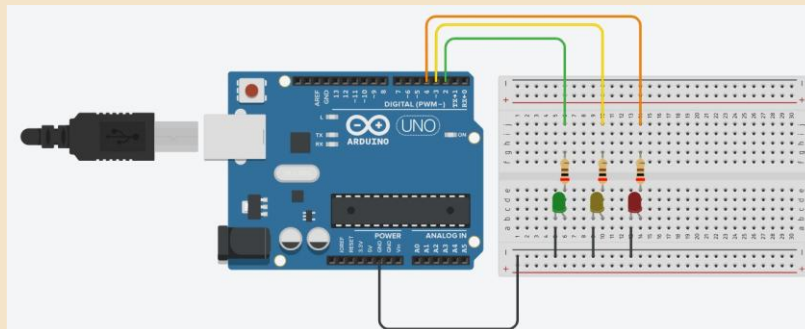
Questions:

- ➢ What is the change in Code required if the starting state is changed to 'Green'?

- ➢ Change the durations of Red, Green and Orange States

- ➢ What is the purpose of delay() function in programming? What are the units of value mentioned inside the parentheses?

Components:

- Arduino
- LED's (3)
- Breadboard
- Resistors-220Ω (3)

```
void setup()

{

 pinMode(2, OUTPUT); //Green

 pinMode(3, OUTPUT); //Orange

 pinMode(4, OUTPUT); //Red

}
```

```
void loop()

{

  digitalWrite(4, HIGH);

  digitalWrite(3, LOW);

  digitalWrite(2, LOW);

  delay(5000); // Wait for 5 second(s)

  digitalWrite(4, LOW);


  digitalWrite(3, HIGH);

  delay(2000); // Wait for 2(s)


  digitalWrite(4, LOW);

  digitalWrite(3, LOW);

  digitalWrite(2, HIGH);

  delay(5000); // Wait for 5(s)
```

MODIFY CODE so that orange red light blinks in last 1 sec

And also green blinks in last one sec