Lab 2 : Program 4

Date : 23/09/20
Experiment : Traffic Controller
Aim: To simulate Traffic Lights.

Hardware :

- Arduino Uno Board
- LED bulbs : Red, Green and Yellow
- 220 Ohm Resistors

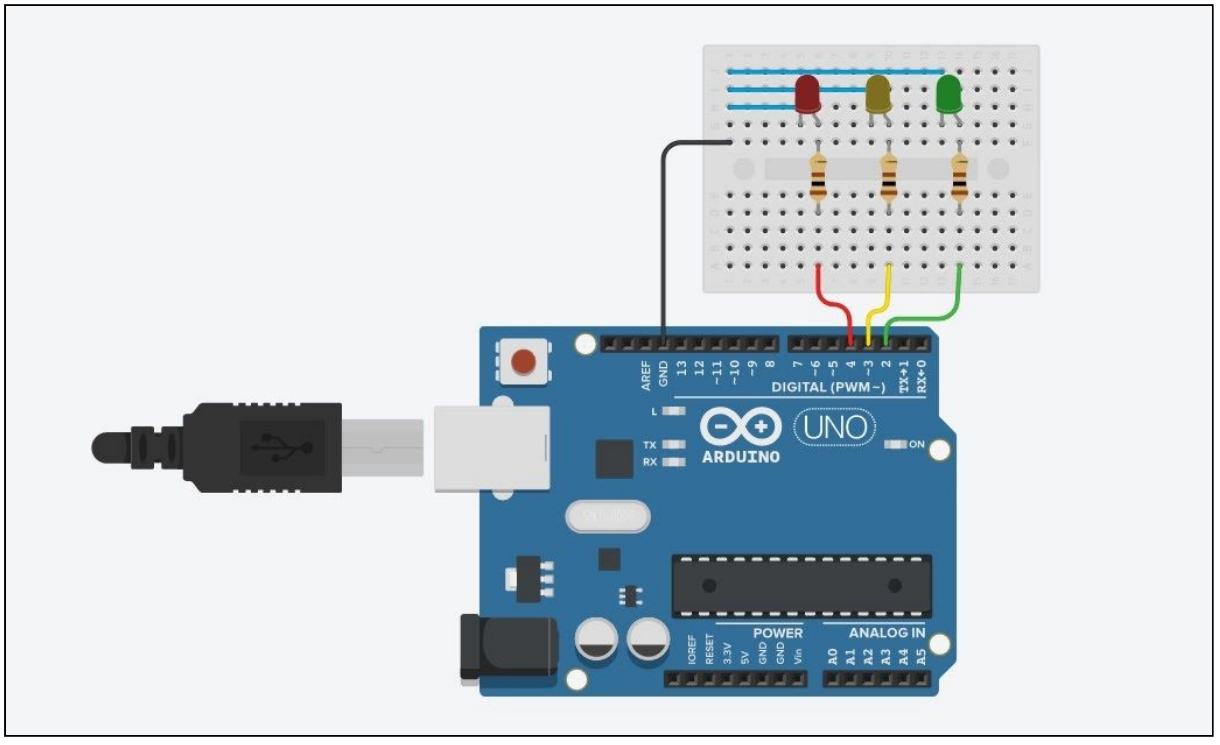
Source :

```
int r = 4 , rdelay = 7500 ;
int y = 3 , ydelay = 2500 ;
int g = 2 , gdelay = 5000 ;

void red()
{
  digitalWrite(r,HIGH);
  digitalWrite(y,LOW);
  digitalWrite(g,LOW);
}

void yellow()
{
  digitalWrite(y,HIGH);
  digitalWrite(r,LOW);
  digitalWrite(g,LOW);
}

void green()
{
  digitalWrite(g,HIGH);
  digitalWrite(y,LOW);
  digitalWrite(r,LOW);
}
```

```
void setup()
{
  pinMode(r, OUTPUT);
  pinMode(y, OUTPUT);
  pinMode(g, OUTPUT);
}

void loop()
{
  red();
  delay(rdelay);
  yellow();
  delay(ydelay);
  green();
  delay(gdelay);
  yellow();
  delay(ydelay);
}
```

Observation : The traffic lights are controlled

Circuit :



Write Up :

IOT LAB 2 Traffic Lights

Mohammad Tanvir

23/09/20

Source Code

```
int r = 4, rdelay = 7500;
int y = 3, ydelay = 2500;
int g = 2, gdelay = 5000;

void red () {
   digitalWrite (r, HIGH);
   digitalWrite (y, LOW);
   digitalWrite (g, LOW); delay (7500);
}

void yellow (){
   digitalWrite (r, LOW);
   digitalWrite (y, HIGH);
   digitalWrite (g, LOW);
   delay (2500);
}

void green (){
   digitalWrite (r, LOW);
   digitalWrite (y, LOW);
   digitalWrite (g, HIGH);
   delay (5000);
}

void setup () {
    pinMode (r, OUTPUT);
    pinMode (y, OUTPUT);
    pinMode (g, OUTPUT);
}

Void loop (){
   red ();
   yellow ();
   green ();
   yellow ();
}
```