

# ASSIGNMENT 03

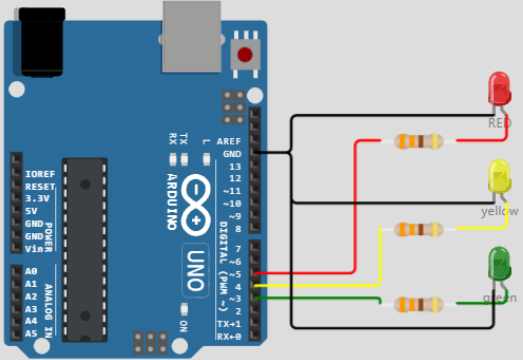
## Traffic Light in Python

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sketch.ino diagram.json Library Manager

```
1 int red = 5;
2 int yellow = 4;
3 int green = 3;
4 void setup(){
5     pinMode(red, OUTPUT);
6     pinMode(yellow, OUTPUT);
7     pinMode(green, OUTPUT);
8 }
9 void loop(){
10     changeLights();
11     delay(15000);
12 }
13 void changeLights(){
14     // green off, yellow on for 3 seconds
15     digitalWrite(green, LOW);
16     digitalWrite(yellow, HIGH);
17     delay(3000);
18     // turn off yellow, then turn red on for 5 seconds
19     digitalWrite(yellow, LOW);
20     digitalWrite(red, HIGH);
21     delay(5000);
22     // red and yellow on for 2 seconds (red is already on though)
23     digitalWrite(yellow, HIGH);
24     delay(2000);
25     // turn off red and yellow, then turn on green
26     digitalWrite(yellow, LOW);
27     digitalWrite(red, LOW);
28     digitalWrite(green, HIGH);
29     delay(3000);
```

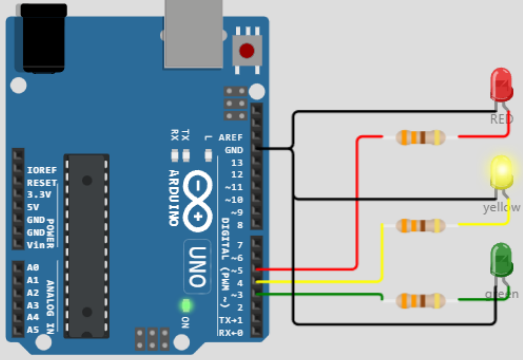
Simulation



## Yellow light

Simulation

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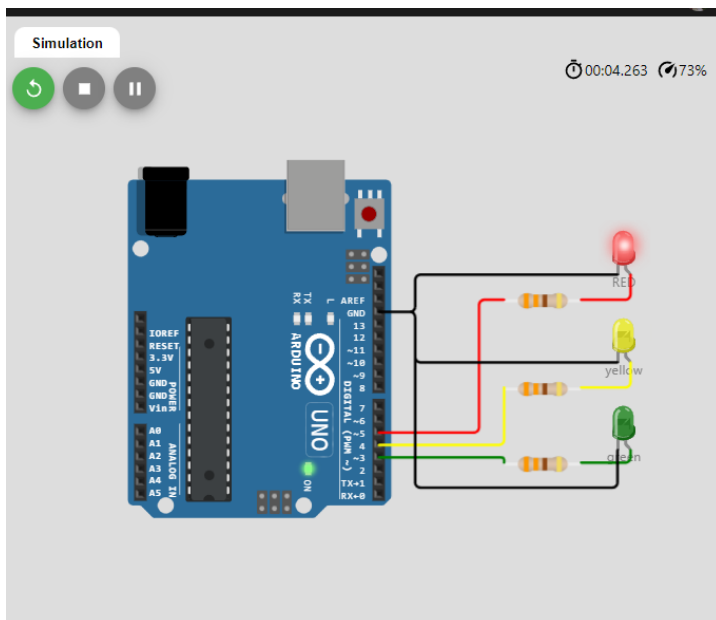
```
int red = 5;
int yellow = 4;
int green = 3;
void setup(){
    pinMode(red, OUTPUT);
    pinMode(yellow, OUTPUT);
    pinMode(green, OUTPUT);
```

```

}
void loop(){
  changeLights();
  delay(15000);
}
void changeLights(){
  // green off, yellow on for 3 seconds
  digitalWrite(green, LOW);
  digitalWrite(yellow, HIGH);
  delay(3000);
  // turn off yellow, then turn red on for 5 seconds
  digitalWrite(yellow, LOW);
  digitalWrite(red, HIGH);
  delay(5000);
  // red and yellow on for 2 seconds (red is already on though)
  digitalWrite(yellow, HIGH);
  delay(2000);
  // turn off red and yellow, then turn on green
  digitalWrite(yellow, LOW);
  digitalWrite(red, LOW);
  digitalWrite(green, HIGH);
  delay(3000);
}

```

## Red Light



## Green Light

