

## ASSIGNMENT-3

Name: Gughan.G

Reg no: 713519CEEC011

College Name: SNS COLLEGE OF ENGINEERING

### *PROGRAM FOR TRAFFIC LIGHT*

Python Code:

```
void setup() {  
  Serial1.begin(9600);  
  pinMode(21, OUTPUT);  
  pinMode(11, OUTPUT);  
  pinMode(19, OUTPUT);  
}  
void loop() {  
  digitalWrite(21, HIGH);  
  delay(3000);  
  digitalWrite(21, LOW);  
  digitalWrite(11, HIGH);  
  delay(1000);  
  digitalWrite(11, LOW);  
  digitalWrite(19, HIGH);  
  delay(3000);  
  digitalWrite(19, LOW);  
}
```

OUTPUT:  
Traffic Lights For Raspberry  
Pi  
Blinking Red Light:



Blinking Yellow Light:

Project Design Phase-II - G x Technology Stack - Templa x IBM-Project-29824-16601 x Wokwi - Online Arduino an x New Raspberry Pi Pico Proj x wokwi-led Reference | Wok x +

← → ↻ wolwi.com/projects/new/pi-pico

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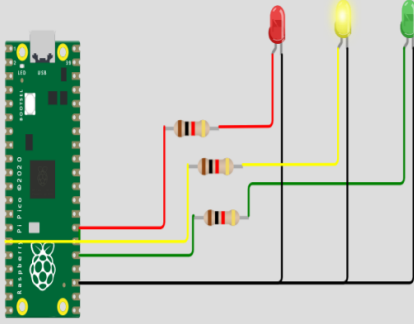
sketch.ino diagram.json Library Manager

Simulation

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Restart the simulation

```
1 void setup() {
2
3   Serial1.begin(9600);
4   pinMode(21, OUTPUT);
5   pinMode(11, OUTPUT);
6   pinMode(19, OUTPUT);
7 }
8
9 void loop() {
10  // put your main code here, to run repeatedly:
11  digitalWrite(21, HIGH);
12  delay(3000); // this speeds up the simulation
13  digitalWrite(21, LOW);
14  digitalWrite(11, HIGH);
15  delay(1000);
16  digitalWrite(11, LOW);
17  digitalWrite(19, HIGH);
18  delay(3000);
19  digitalWrite(19, LOW);
20 }
21
```



Blinking Green Light:

Project Design Phase-II - G x Technology Stack - Templa x IBM-Project-29824-16601 x Wokwi - Online Arduino an x New Raspberry Pi Pico Proj x wokwi-led Reference | Wok x +

← → ↻ wolwi.com/projects/new/pi-pico

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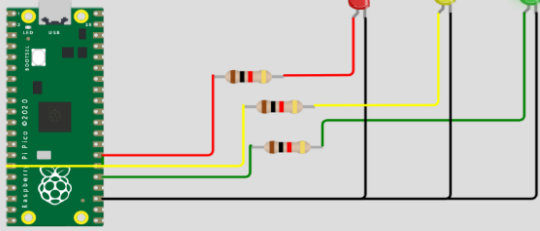
sketch.ino diagram.json Library Manager

Simulation

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Restart the simulation

```
1 void setup() {
2
3   Serial1.begin(9600);
4   pinMode(21, OUTPUT);
5   pinMode(11, OUTPUT);
6   pinMode(19, OUTPUT);
7 }
8
9 void loop() {
10  // put your main code here, to run repeatedly:
11  digitalWrite(21, HIGH);
12  delay(3000); // this speeds up the simulation
13  digitalWrite(21, LOW);
14  digitalWrite(11, HIGH);
15  delay(1000);
16  digitalWrite(11, LOW);
17  digitalWrite(19, HIGH);
18  delay(3000);
19  digitalWrite(19, LOW);
20 }
21
```



**BLINKING LED:  
PROGRAM FOR BLINKING  
LED:**

**Python code:**

```
void setup() {
```

```
Serial1.begin(9600);
pinMode(22, OUTPUT);
}
void loop() {
digitalWrite(22, HIGH);
Serial.println("LED ON");
delay(1000);
digitalWrite(22, LOW);
Serial.println("LED OFF");
delay(1000);
}
```

**Output:**

**Blinking LED For Raspberry pi:**

