

ASSIGNMENT 3

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PROGRAM FOR TRAFFIC LIGHT

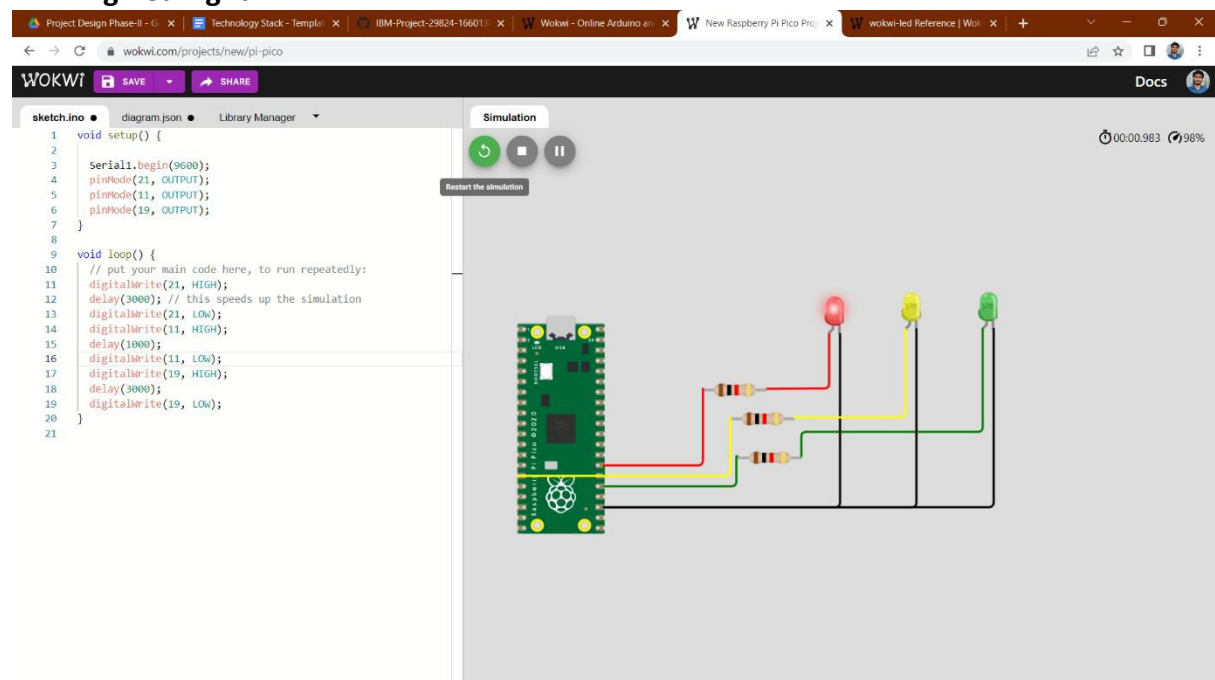
Python Code:

```
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 Pro x wokwi-led Reference | Wol x + v - o x

wokwi.com/projects/new/pi-pico

WOKWI SAVE SHARE Docs

sketch.ino diagram.json Library Manager 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
```

Restart the simulation

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Blinking Green Light:

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WOKWI SAVE SHARE Docs

sketch.ino diagram.json Library Manager 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
```

Restart the simulation

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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:

