

ASSIGNMENT-3

Name: Kesavan M

Reg no: 713319EC050

College Name: SNS COLLEGE OF TECHNOLOGY

PROGRAM FOR TRAFFIC LIGHT

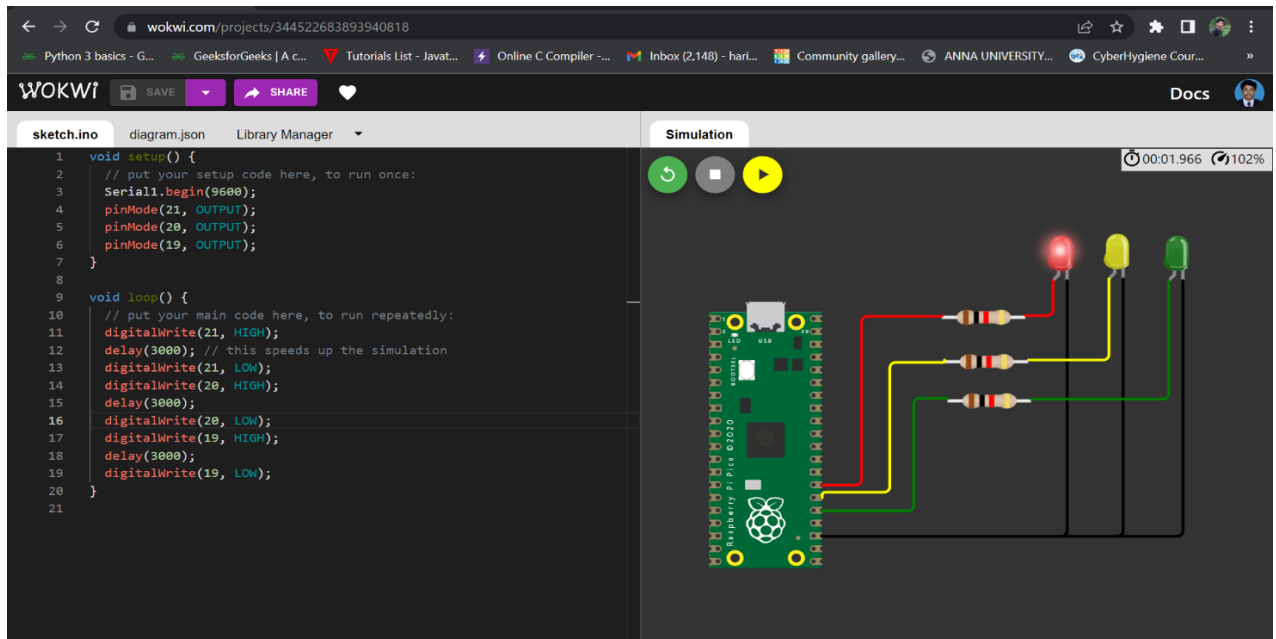
Python Code:

```
void setup() {  
  // put your setup code here, to run once:  
  Serial1.begin(9600);  
  pinMode(21, OUTPUT);  
  pinMode(20, OUTPUT);  
  pinMode(19, OUTPUT);  
}  
  
void loop() {  
  // put your main code here, to run repeatedly:  
  digitalWrite(21, HIGH);  
  delay(3000); // this speeds up the simulation  
  digitalWrite(21, LOW);  
  digitalWrite(20, HIGH);  
  delay(3000);  
  digitalWrite(20, LOW);  
  digitalWrite(19, HIGH);  
  delay(3000);  
  digitalWrite(19, LOW);  
}
```

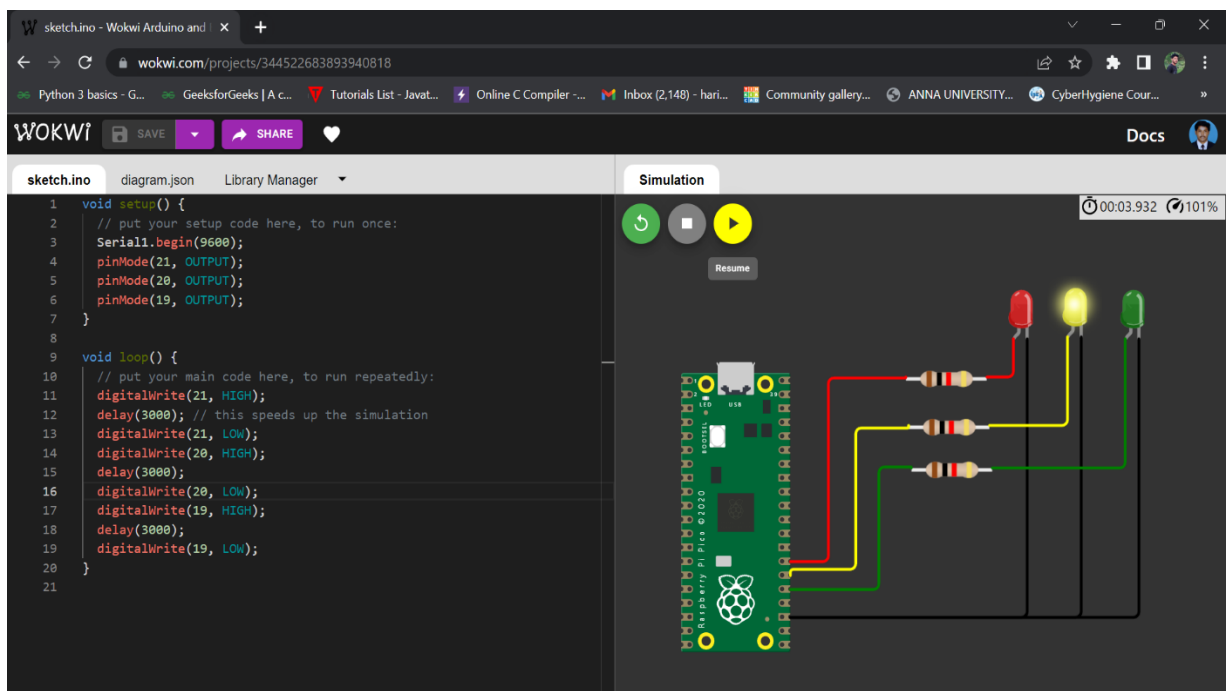
OUTPUT:

Traffic Lights For Raspberry Pi

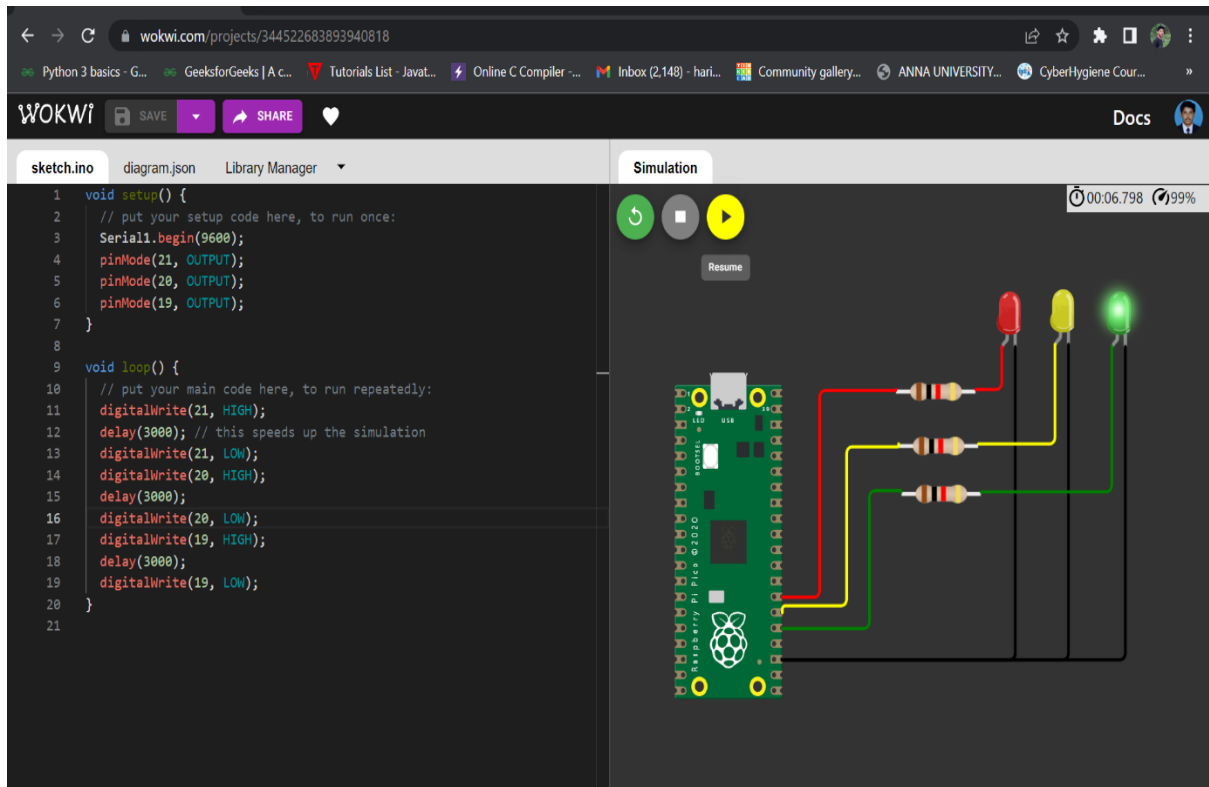
Blinking Red Light:



Blinking Yellow Light:



Blinking Green Light:



BLINKING LED:

PROGRAM FOR BLINKING LED:

Python code:

```
void setup() {  
  // put your setup code here, to run once:  
  Serial.begin(9600);  
  pinMode(22, OUTPUT);  
}  
  
void loop() {  
  // put your main code here, to run repeatedly:  
  digitalWrite(22, HIGH);  
  Serial.println("LED ON");  
  delay(2000);  
  digitalWrite(22, LOW);  
  Serial.println("LED OFF");  
  delay(2000);  
}
```

Output:

Blinking LED For Raspberry pi:

WOKWI

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```
1 void setup() {
2   // put your setup code here, to run once:
3   Serial.begin(9600);
4   pinMode(22, OUTPUT);
5 }
6
7 void loop() {
8   // put your main code here, to run repeatedly:
9   digitalWrite(22, HIGH);
10  Serial.println("LED ON");
11  delay(2000);
12  digitalWrite(22, LOW);
13  Serial.println("LED OFF");
14  delay(2000);
15 }
16
```

Simulation

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