

ASSIGNMENT-3

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PROGRAM FOR TRAFFIC LIGHT

Python Code:

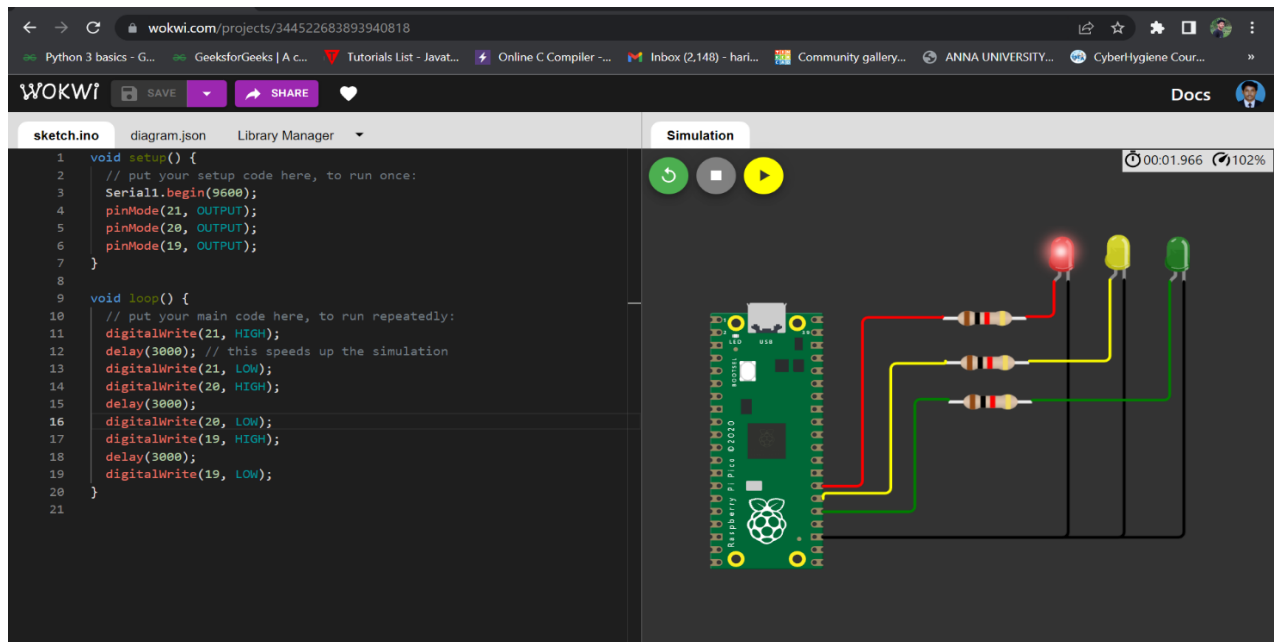
```
void setup(){
  // put your setup code here, to run once:
  Serial1.begin(9600);
  pinMode(21,OUTPUT);
  pinMode(20,OUTPUT);
  pinMode(19,OUTPUT);
}

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);
}
```

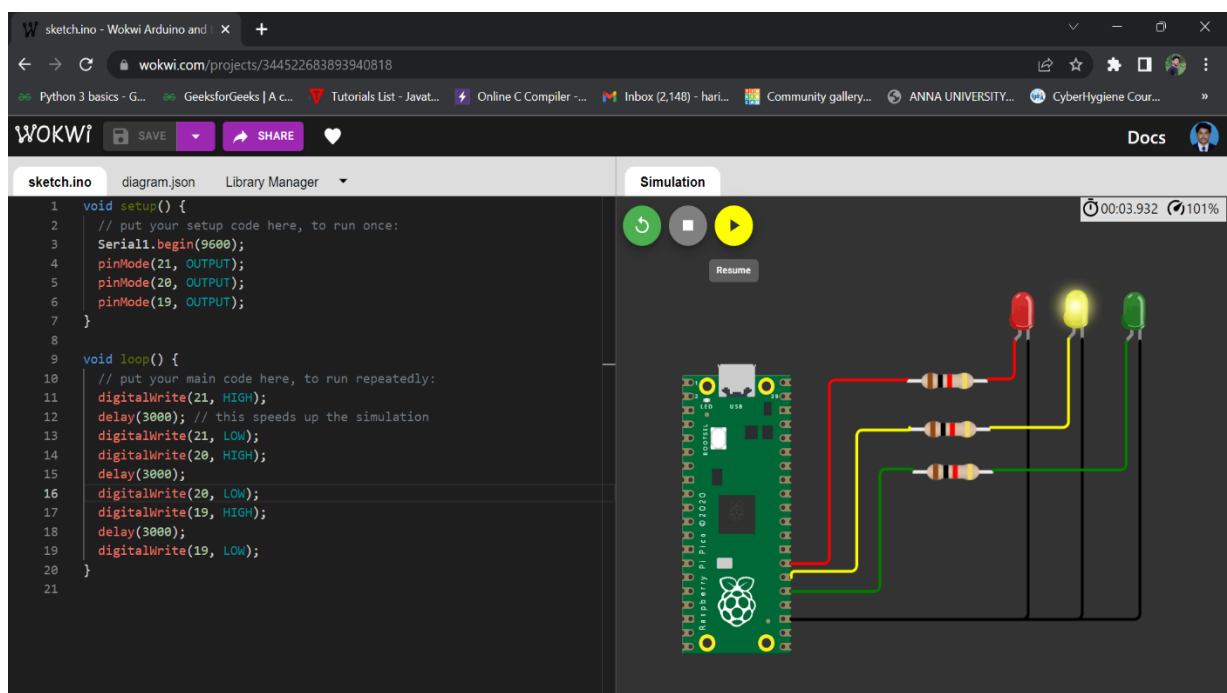
OUTPUT:

Traffic Lights For Raspberry Pi

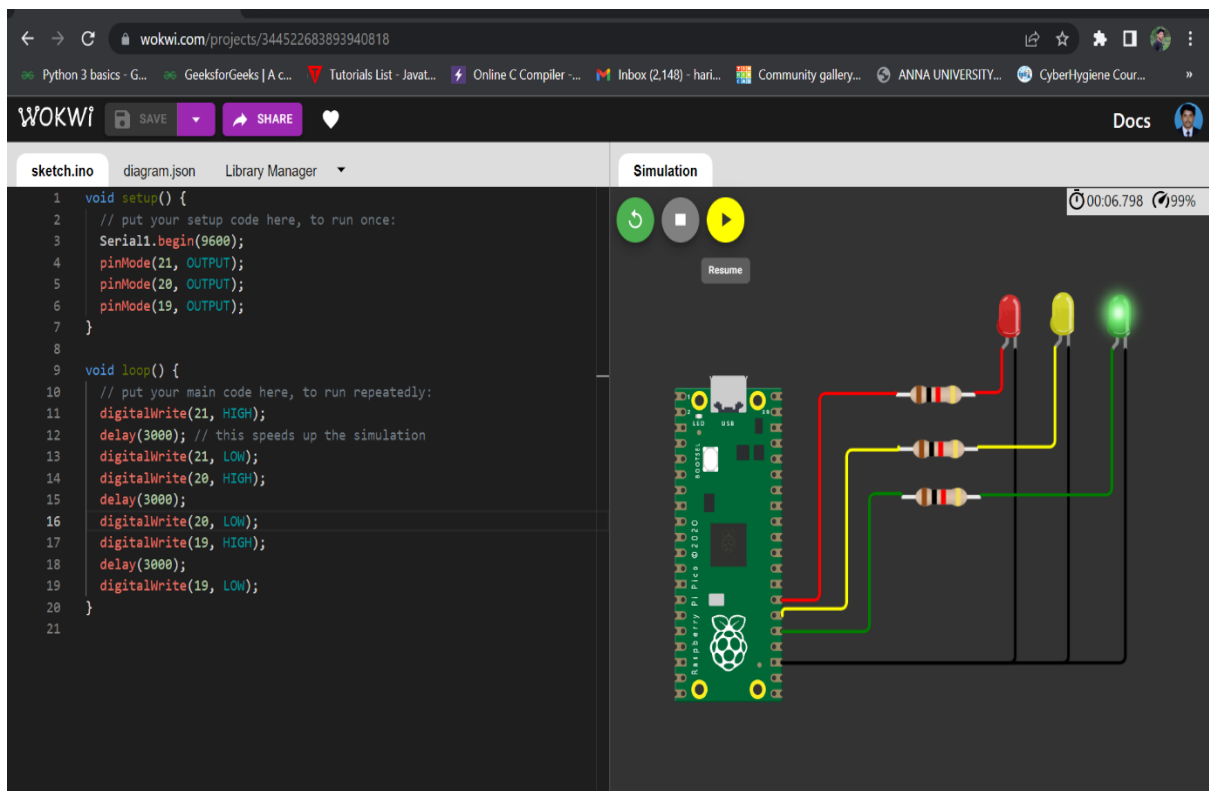
Blinking Red Light:



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

00:09.365 99%

