ASSIGNMENT-3

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PROGRAM FOR TRAFFIC LIGHT

Python Code:

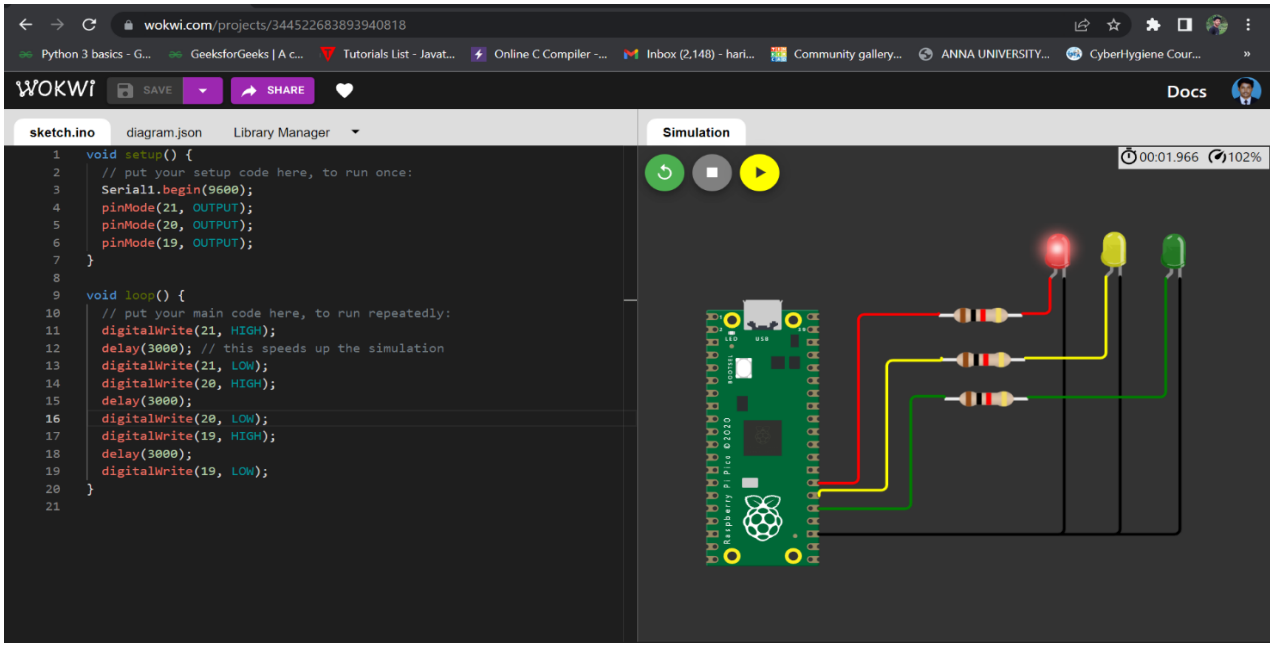
```
voidsetup(){
  // put your setup code here, to run once:
  Serial1.begin(9600);
  pinMode(21,OUTPUT);
  pinMode(20,OUTPUT);
  pinMode(19,OUTPUT);
}

voidloop(){
  // 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);
}
```

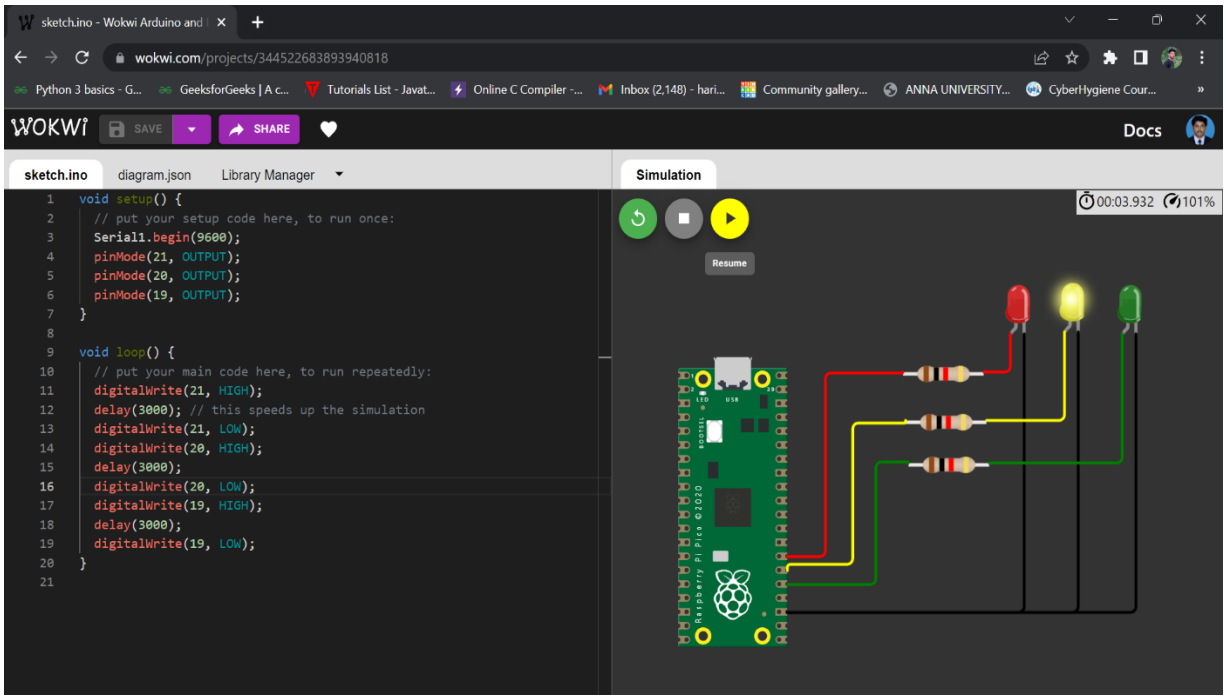
OUTPUT:

Traffic Lights For Raspberry Pi

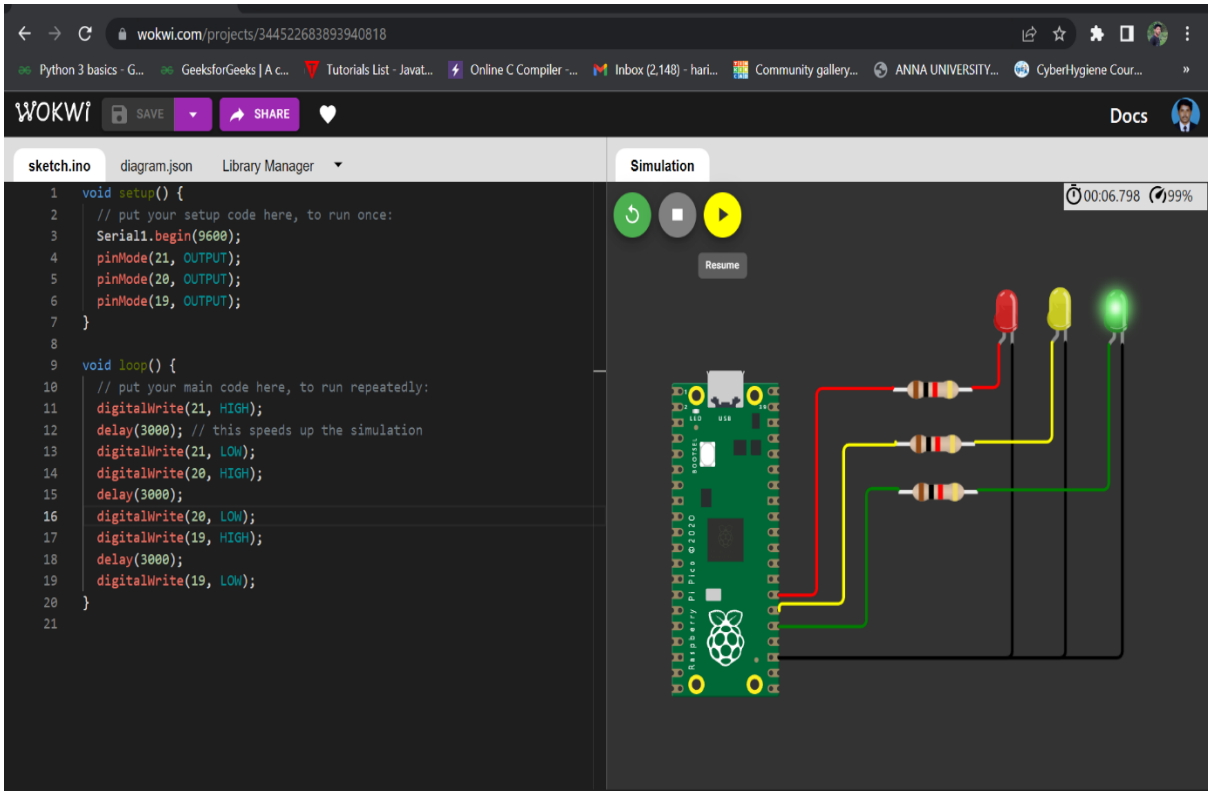
Blinking Red Light:



Blinking Yellow Light:



Blinking Green Light:



BLINKING LED:

PROGRAM FOR BLINKING LED:

Python code:

```
voidsetup(){
  // put your setup code here, to run once:
  Serial.begin(9600);
  pinMode(22,OUTPUT);
}

voidloop(){
  // 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: