

## ASSIGNMENT-3

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### *PROGRAM FOR TRAFFIC LIGHT*

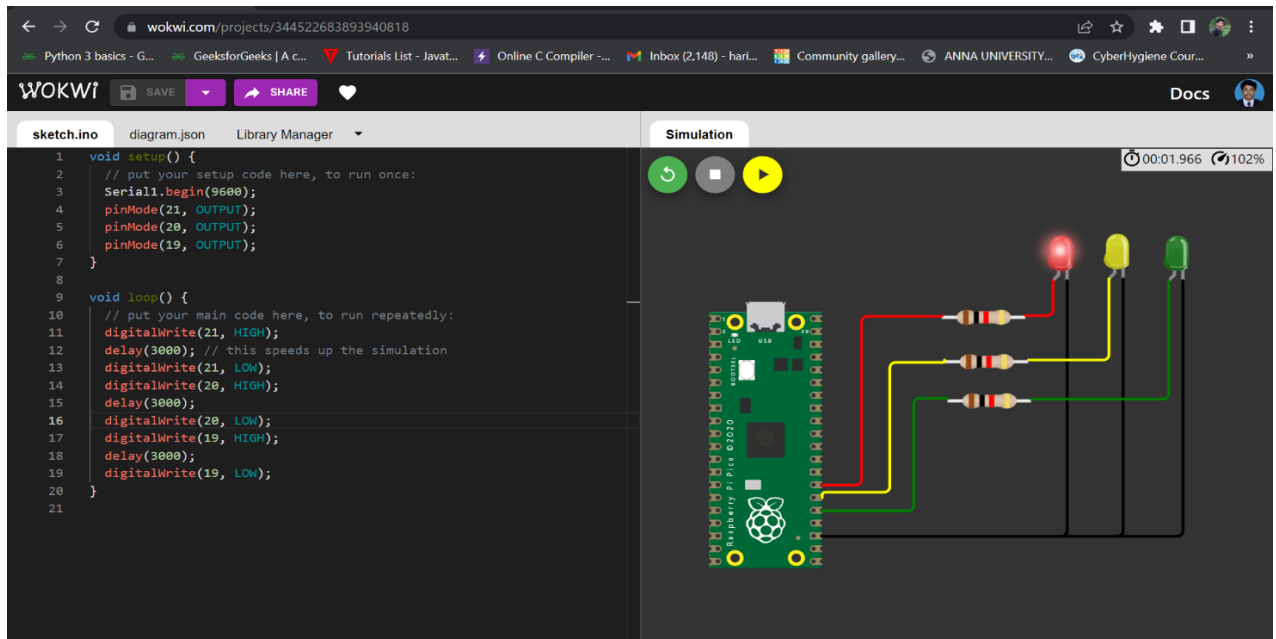
Python Code:

```
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);  
}
```

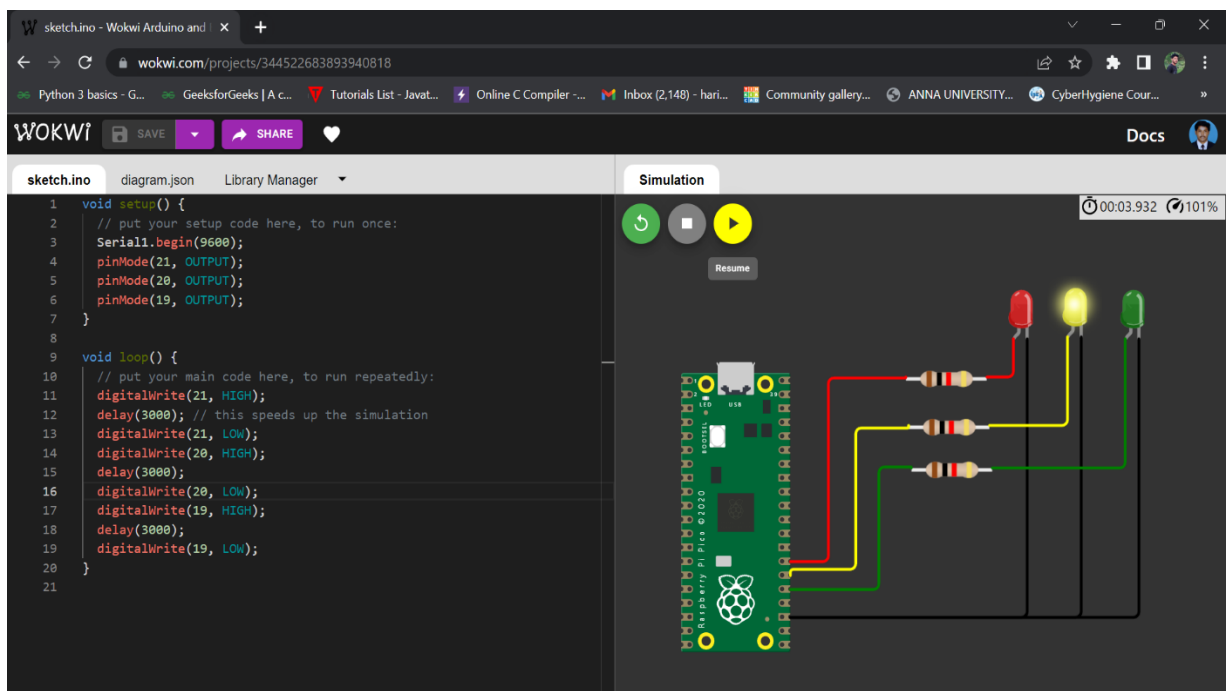
## OUTPUT:

### Traffic Lights For Raspberry Pi

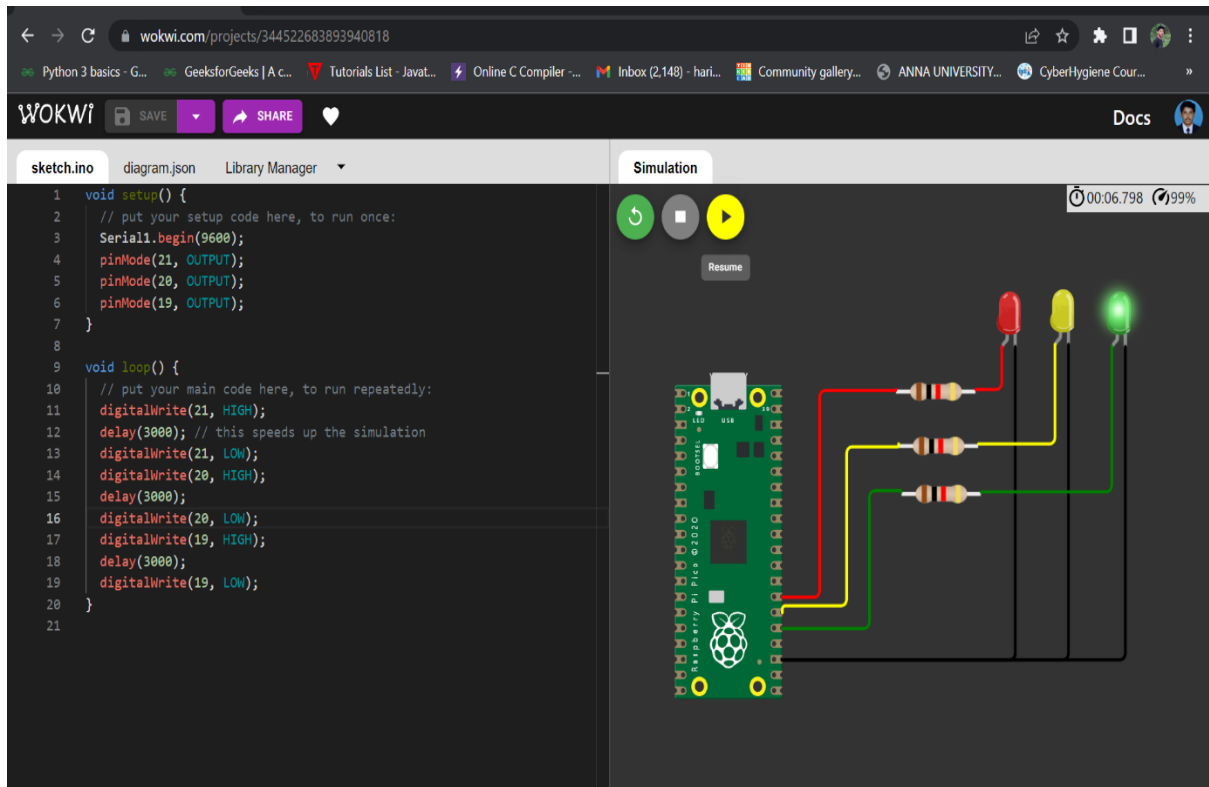
#### Blinking Red Light:



#### 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%

