

## ASSIGNMENT-3

DOMAIN : IOT  
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### PROGRAM FOR TRAFFIC LIGHT

#### Python Code:

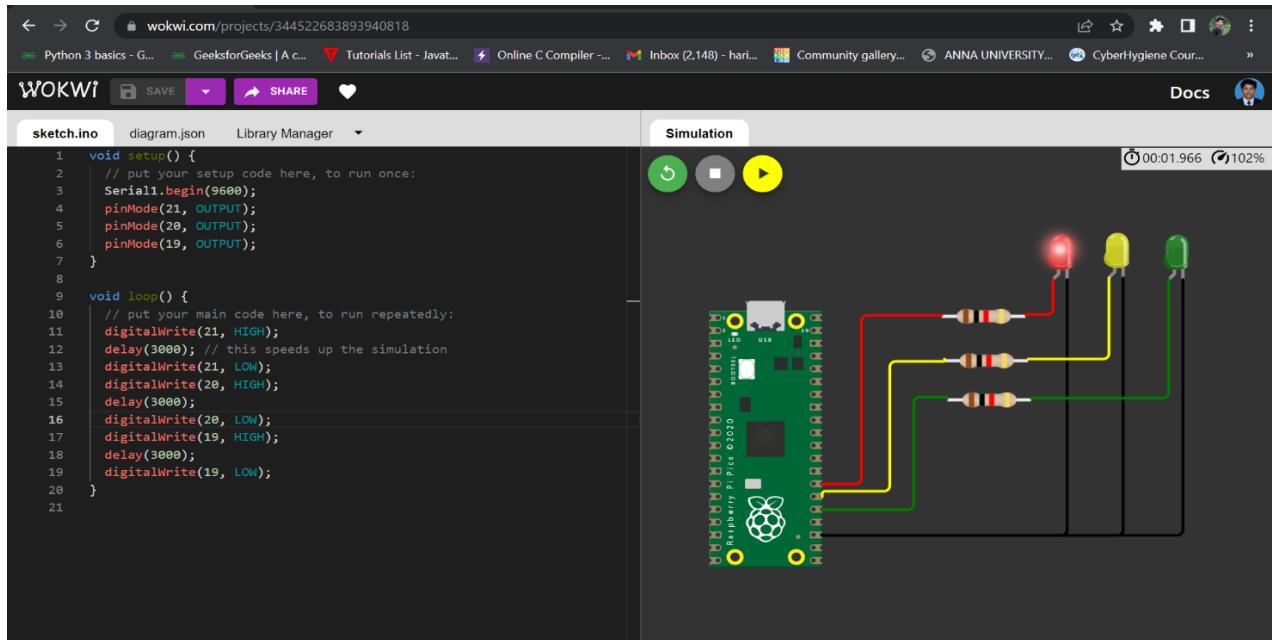
```
void setup() {
    // put your setup code here, to run once:
    Serial1.begin(9600);
    pinMode(21, OUTPUT);
    pinMode(20, OUTPUT);
    pinMode(19, OUTPUT);
}

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);
}
```

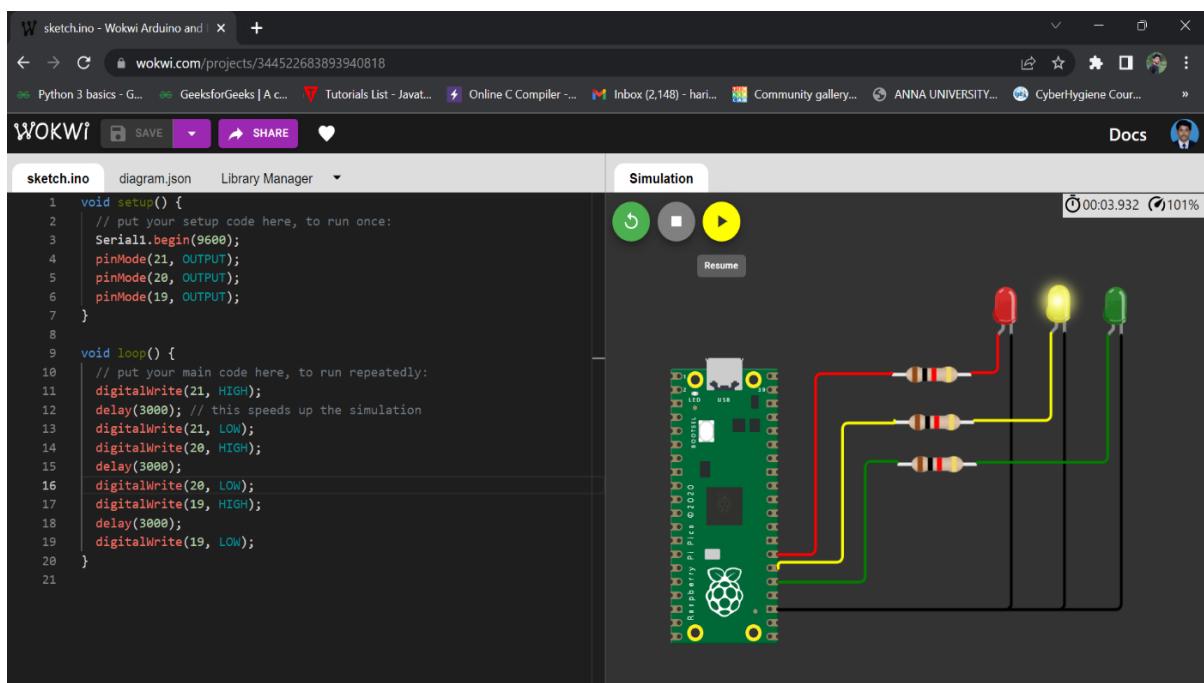
## OUTPUT:

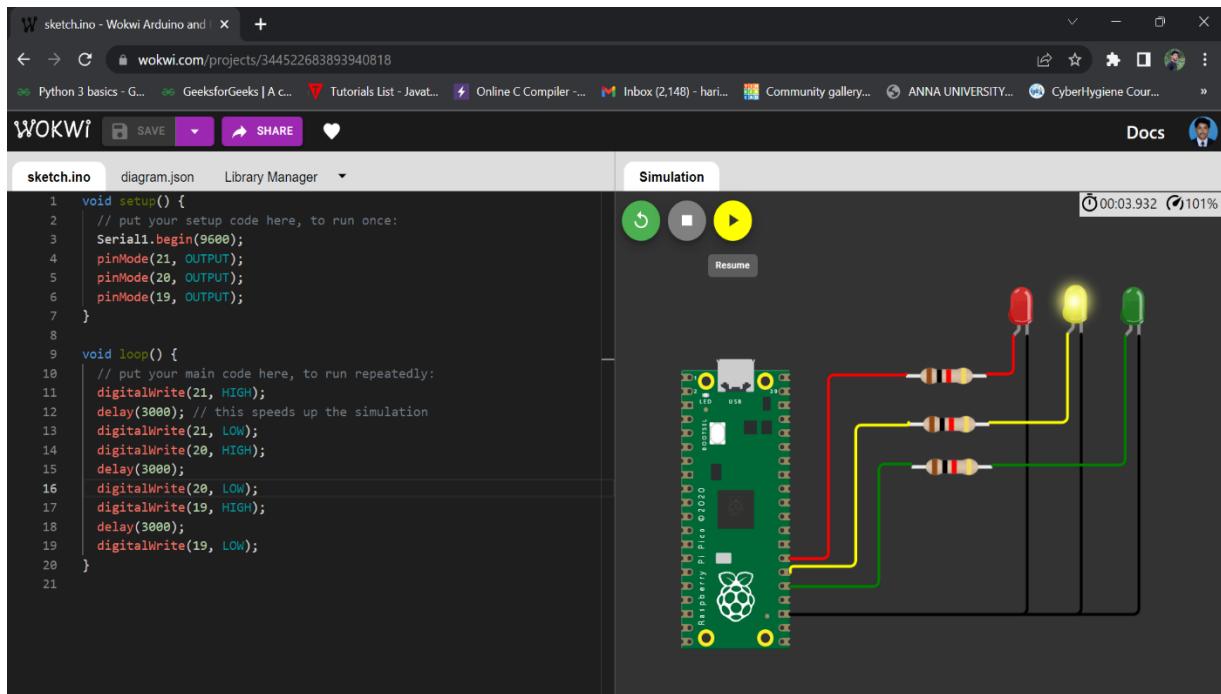
### Traffic Lights For Raspberry Pi

#### Blinking Red Light:

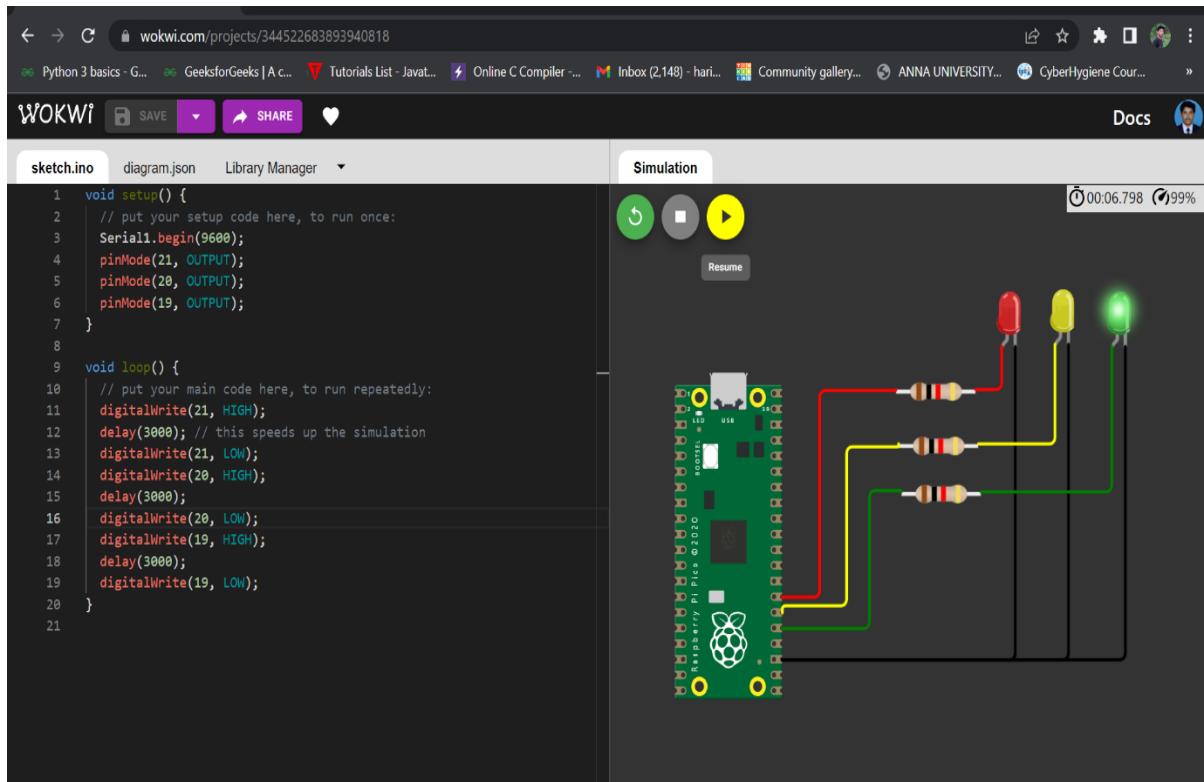


#### Blinking Yellow Light:





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:

