

## ASSIGNMENT-3

DOMAIN : IOT

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### PROGRAM FOR TRAFFIC LIGHT

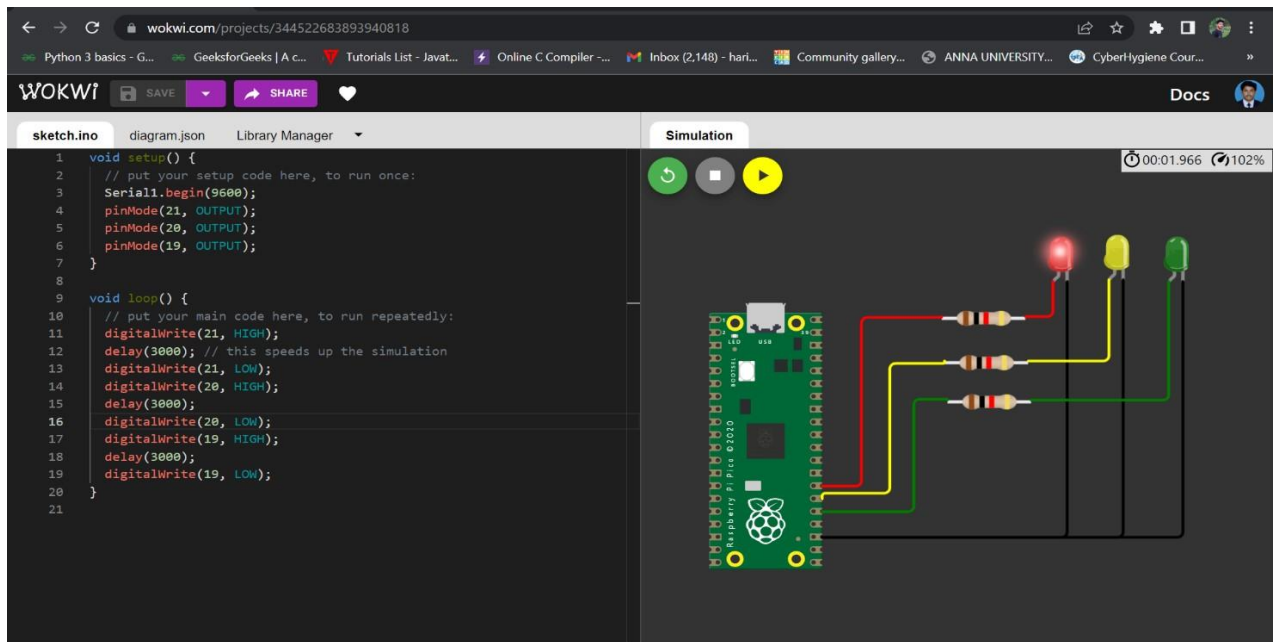
#### Python Code:

```
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);  
}
```

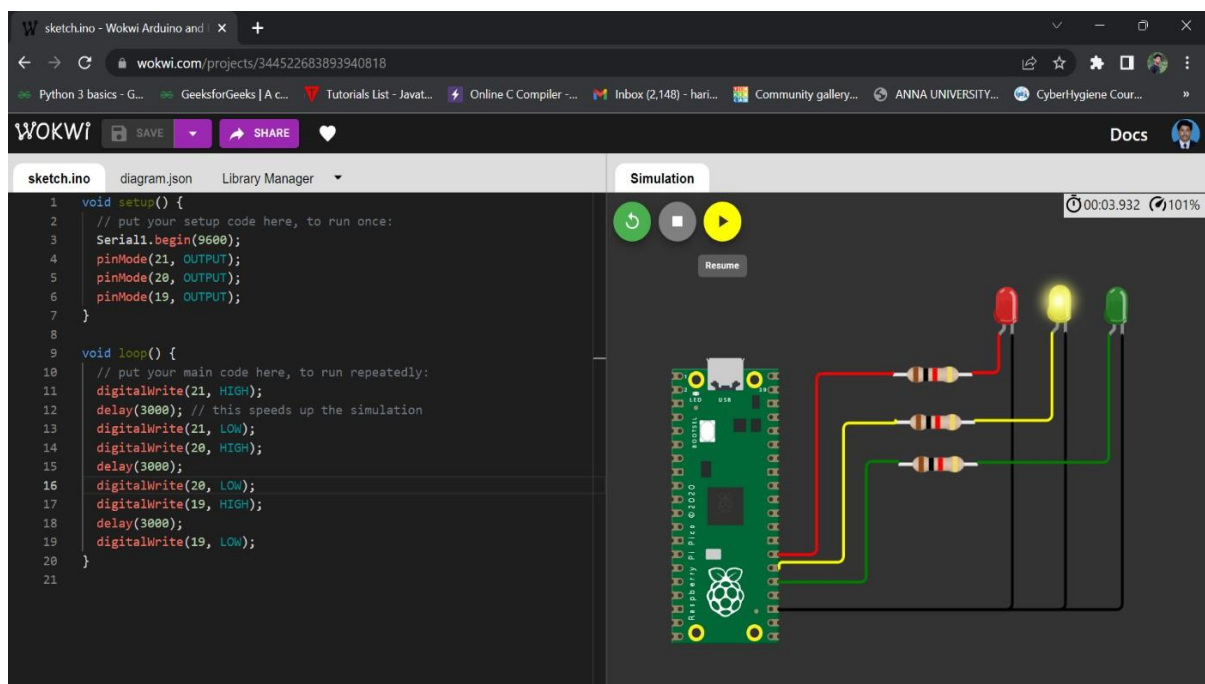
## OUTPUT:

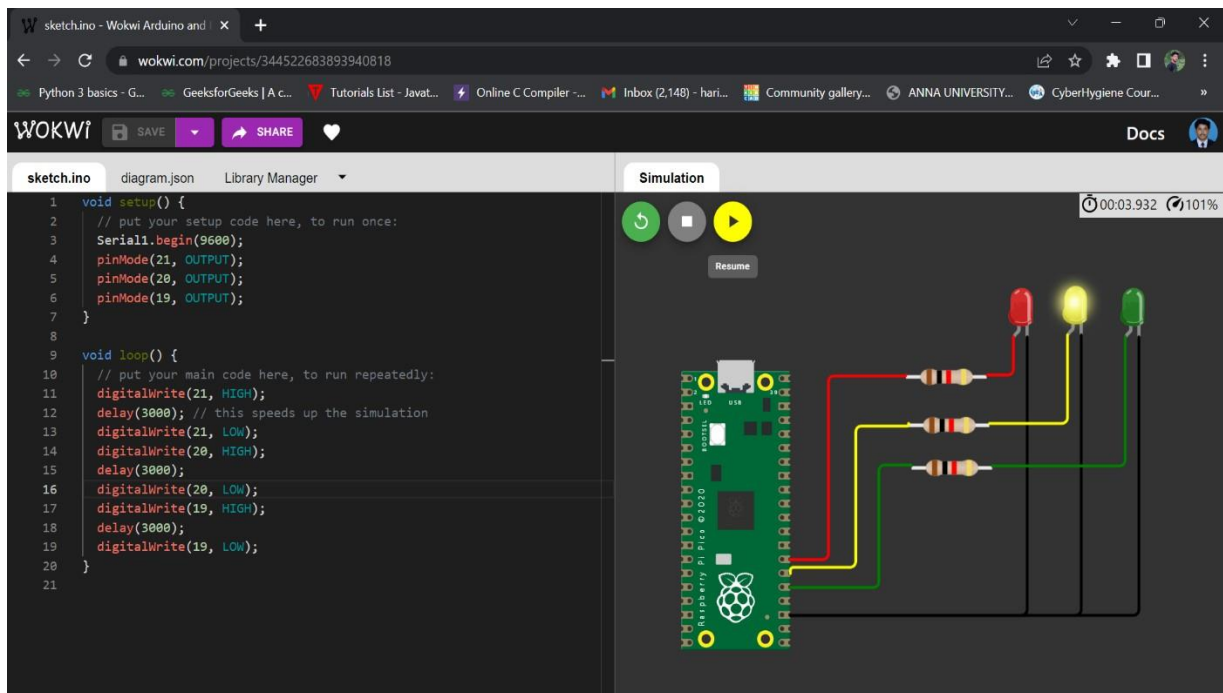
### Traffic Lights For Raspberry Pi Blinking

#### Red Light:

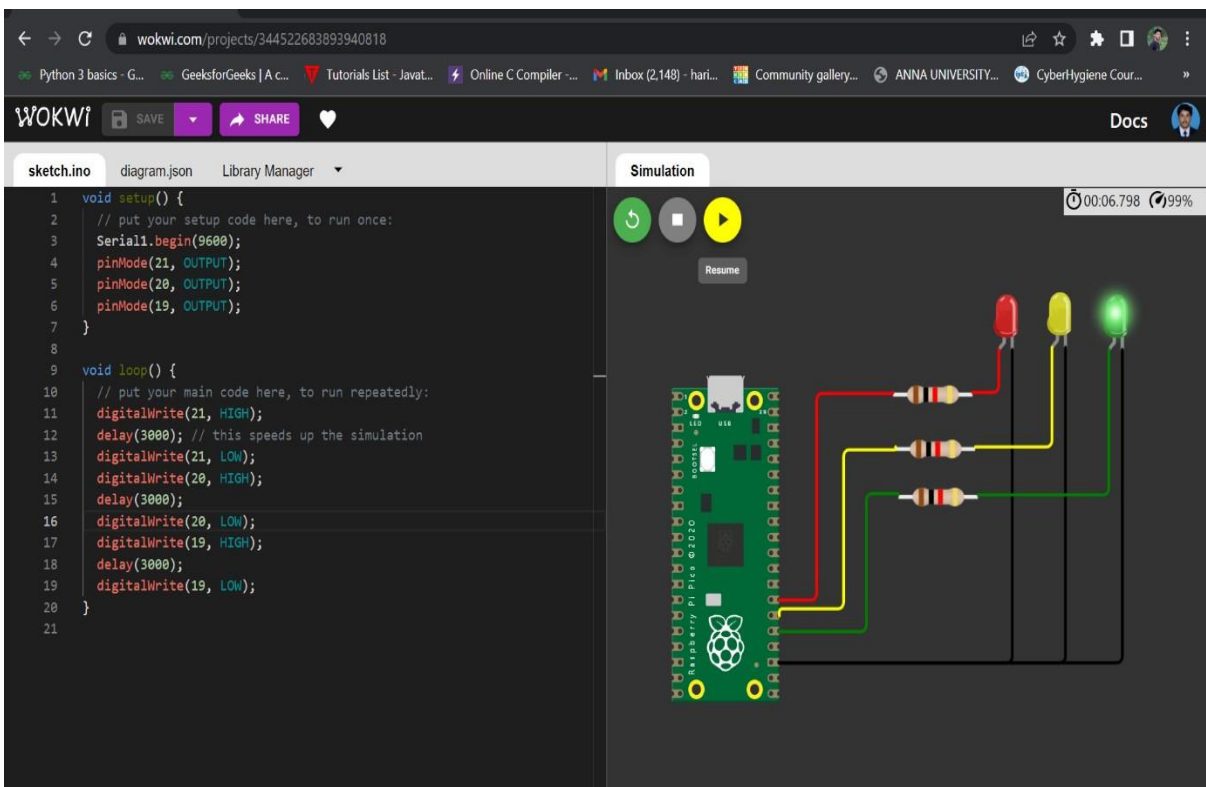


#### Blinking Yellow Light:





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:

