#### **ASSIGNMENT-3**

DOMAIN : IOT

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AND TECHNOLOGY

#### PROGRAM FOR TRAFFIC LIGHT

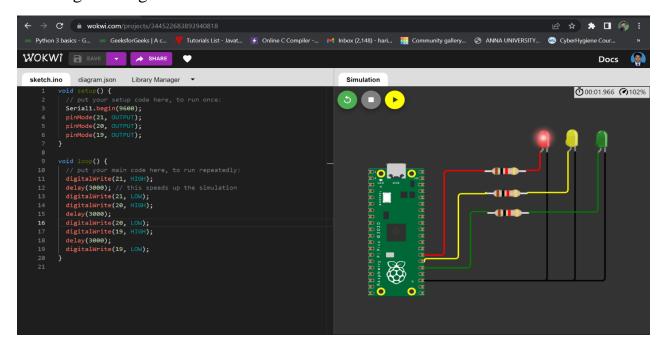
#### **Python Code:**

```
void setup() {
 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);
```

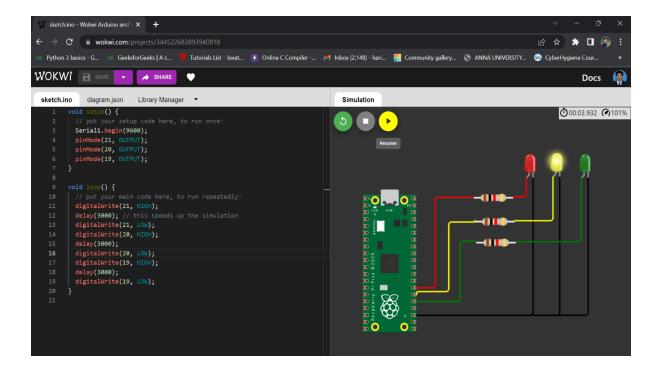
#### **OUTPUT:**

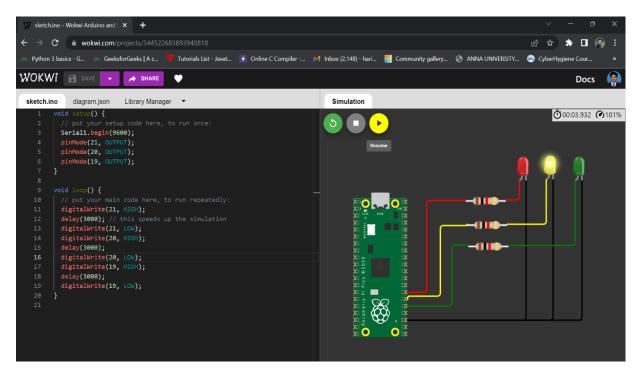
## Traffic Lights For Raspberry Pi

#### Blinking Red Light:

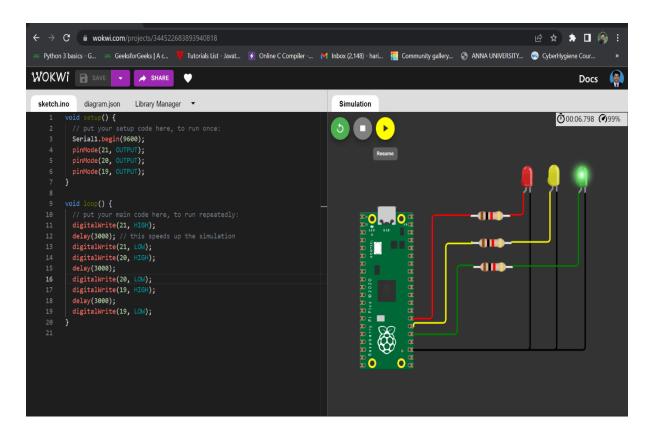


#### Blinking Yellow Light:





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:

