ASSIGNMENT-3

PROGRAM FOR TRAFFIC LIGHT

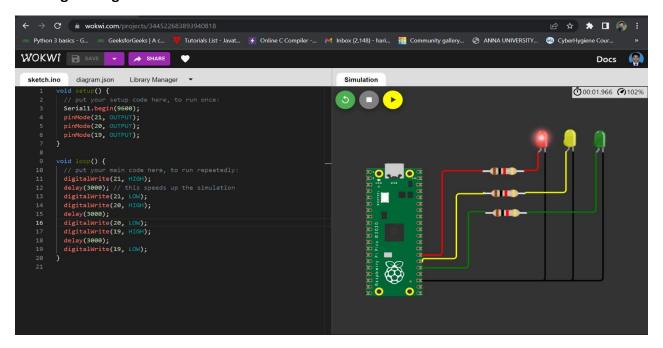
Python Code:

```
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);
```

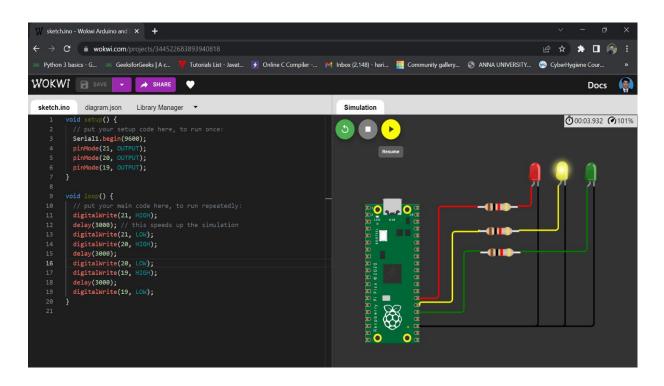
OUTPUT:

Traffic Lights For Raspberry Pi

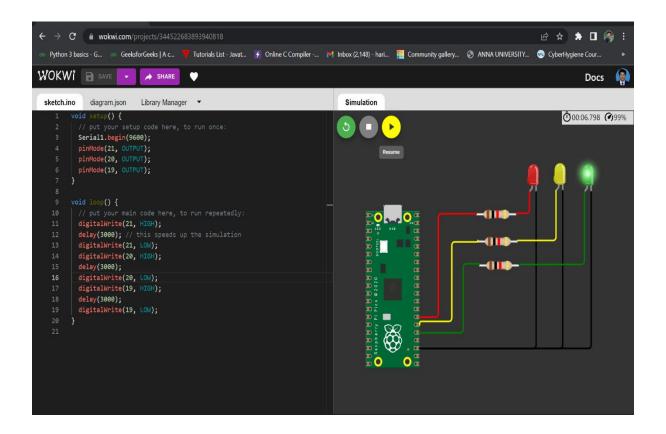
Blinking Red Light:



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:

