ASSIGNMENT-3

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PROGRAM FOR TRAFFIC LIGHT

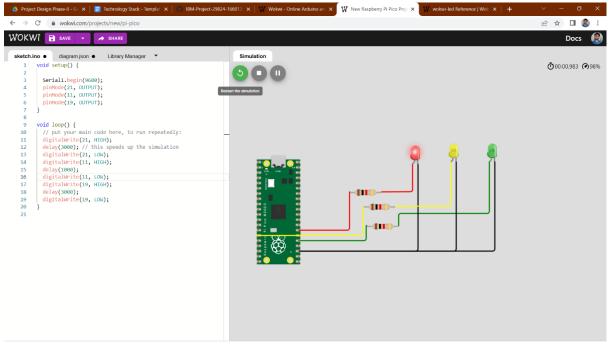
Python Code:

```
void setup() {
  Serial1.begin(9600);
  pinMode(21, OUTPUT);
 pinMode(11, OUTPUT);
 pinMode(19, OUTPUT);
}
void loop() {
  digitalWrite(21, HIGH);
  delay(3000);
  digitalWrite(21, LOW);
  digitalWrite(11, HIGH);
  delay(1000);
  digitalWrite(11, LOW);
  digitalWrite(19, HIGH);
 delay(3000);
  digitalWrite(19, LOW);
}
```

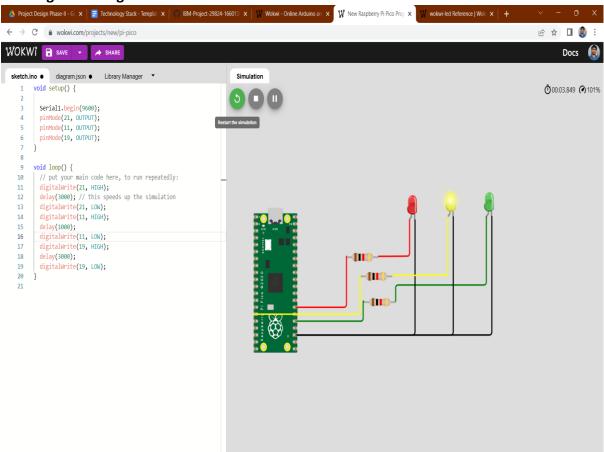
OUTPUT:

Traffic Lights For Raspberry Pi

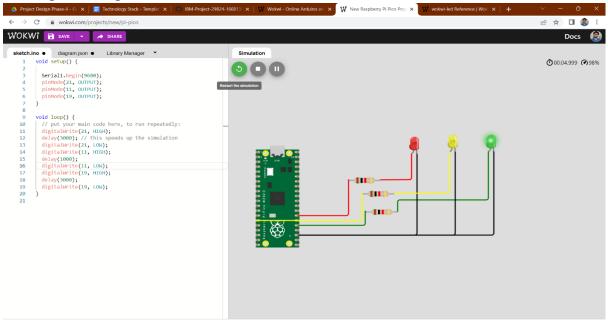
Blinking Red Light:



Blinking Yellow Light:



Blinking Green Light:



BLINKING LED:

PROGRAM FOR BLINKING LED:

Python code:

```
void setup() {
    Serial1.begin(9600);
    pinMode(22, OUTPUT);
}

void loop() {
    digitalWrite(22, HIGH);
    Serial.println("LED ON");
    delay(1000);
    digitalWrite(22, LOW);
    Serial.println("LED OFF");
    delay(1000);
}
```

Output:

Blinking LED For Raspberry pi:

