IOT ASSIGNMENT -3

SMART SOLUTION FOR RAILWAYS

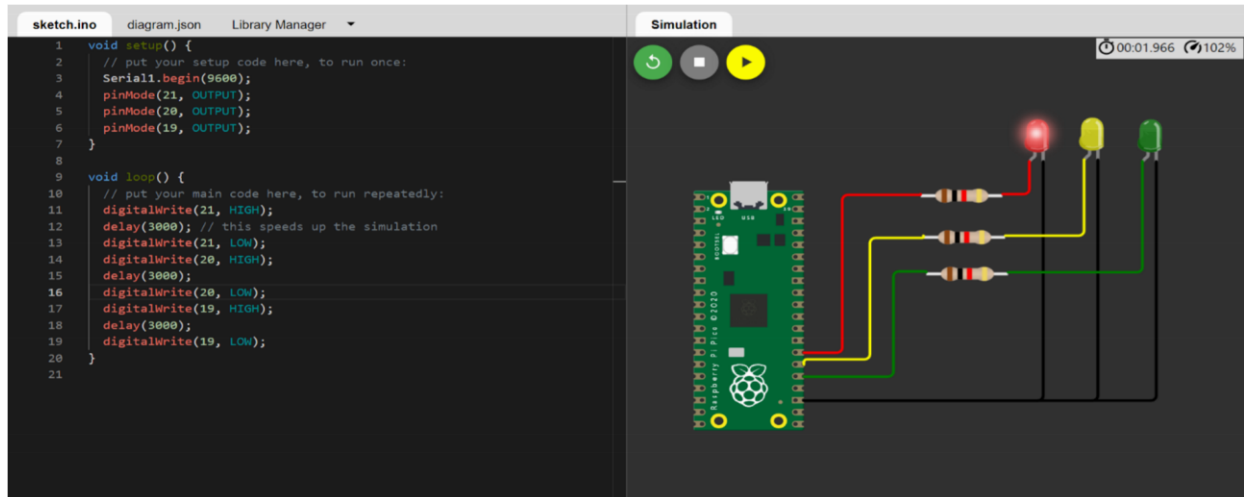**Python Code:**

```
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);
}
```
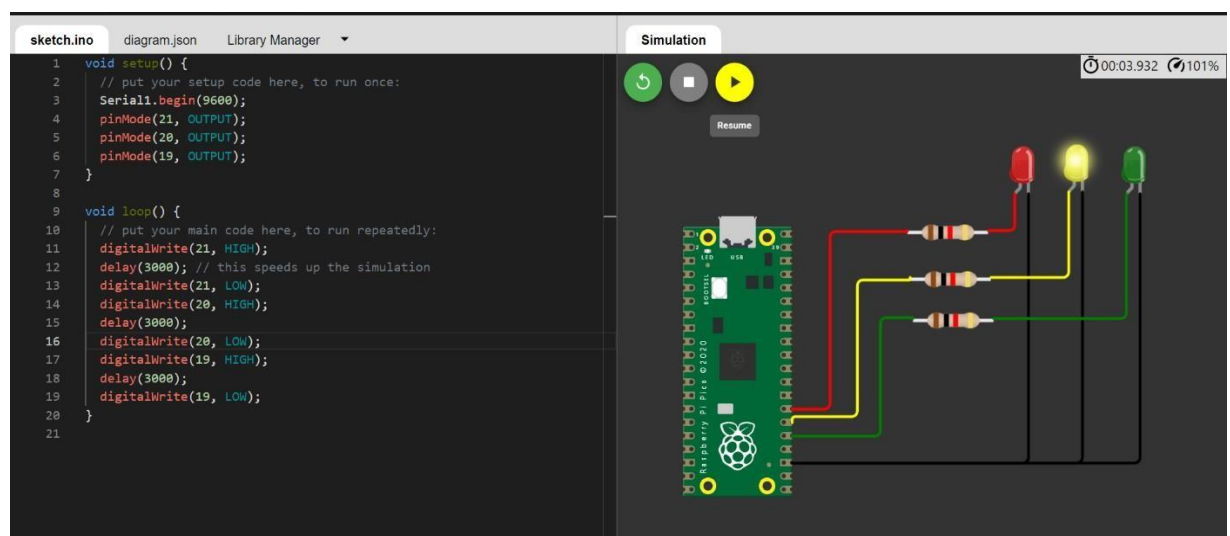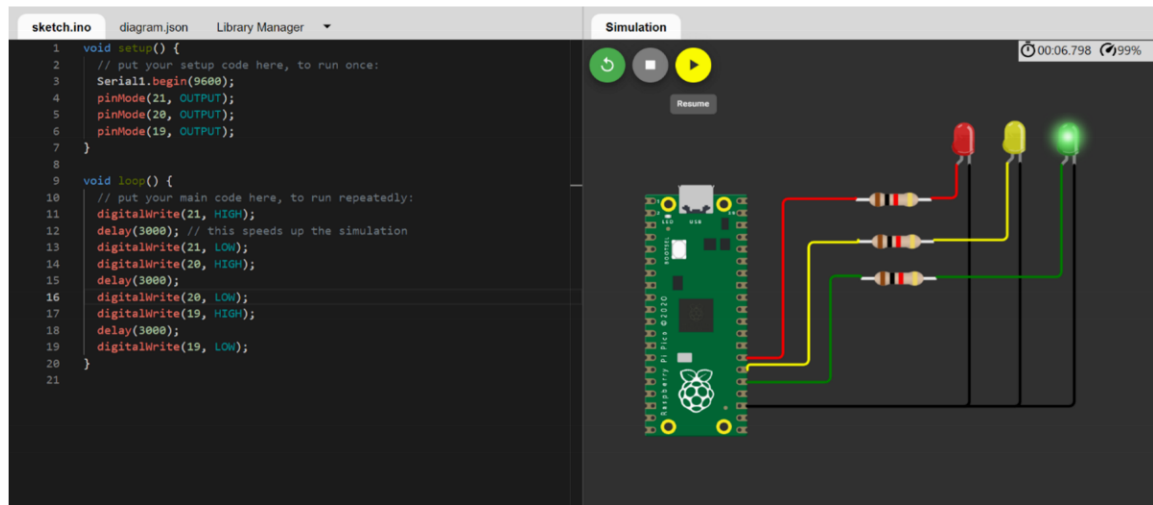
OUTPUT:

Traffic Lights For Raspberry Pi Blinking

Red Light:

Blinking Yellow Light:

Blinking Green Light:

<u>**BLINKING LED:**</u>

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:


```
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);
}
```