KCG COLLEGE OF TECHNOLOGY, CHENNAI

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

IOT ASSIGNMENT

TOPIC: Signs With Smart Connectivity For Better Road Safety

NAME: PRAVEEN SHARMA

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:

```
sketchino diagramison Library Manager 

void setup() {

// put your setup code here, to run once:

seriall.begin(9600);

pinModa(21, OUTPUT);

pinModa(20, OUTPUT);

pinModa(19, OUTPUT);

// put your main code here, to run repeatedly:

digitalMrite(21, HEGH);

delay(3800); // this speeds up the simulation digitalMrite(20, HEGH);

delay(3800); // digitalMrite(20, HEGH);

delay(3800); // digitalMrite(20, HEGH);

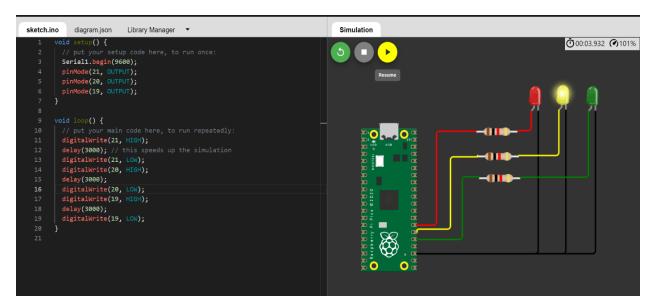
delay(3800); // digitalMrite(19, HEGH);

delay(3800); // digitalMrite(19, HEGH);

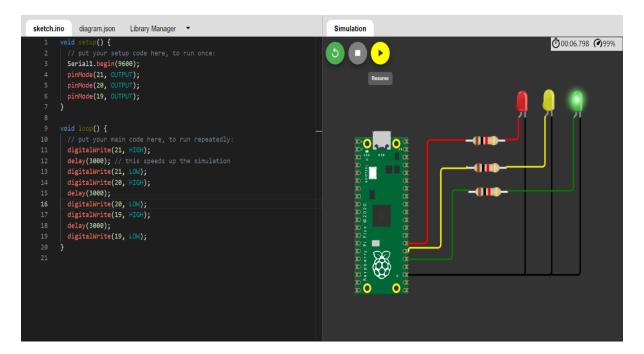
delay(3800); // digitalMrite(19, LOW);

digitalMrite(19, LOW);

digitalMrite(19, LOW);
```



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:

