KCG COLLEGE OF TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

IOT ASSIGNMENT

TOPIC: SMART SOLUTION FOR RAILWAYS

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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:

```
sketch.ino diagram.json Library Manager 

void setup() {

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

Simulation

Simulation

void setup() {

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

Seriall.begin/geoep);

pinWode(21, QUTPUT);

pinWode(22, QUTPUT);

pinWode(29, QUTPUT);

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

digitalkrite(21, HiGH);

delay(3000); // this speeds up the simulation

digitalkrite(28, HiGH);

delay(3000); // digitalkrite(28, HiGH);

delay(3000); // digitalkrite(28, HiGH);

delay(3000); // digitalkrite(19, HiGH);

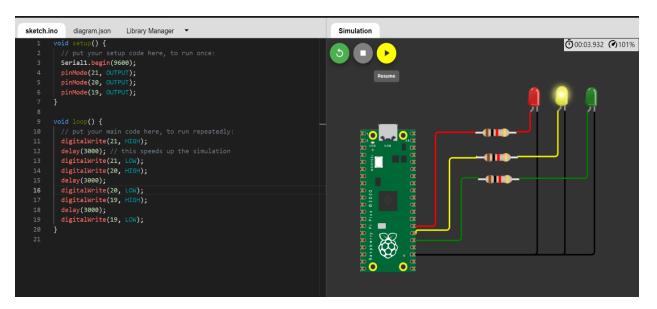
delay(3000); // digitalkrite(19, HiGH);

delay(3000); // digitalkrite(19, HiGH);

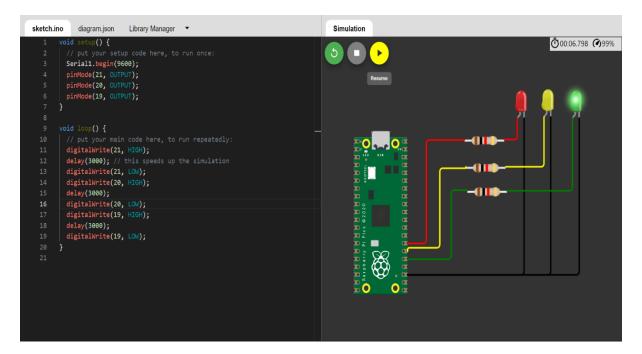
delay(3000); // digitalkrite(19, HiGH);

digital
```

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:

