

IBM PROJECT

ASSIGNMENT-3

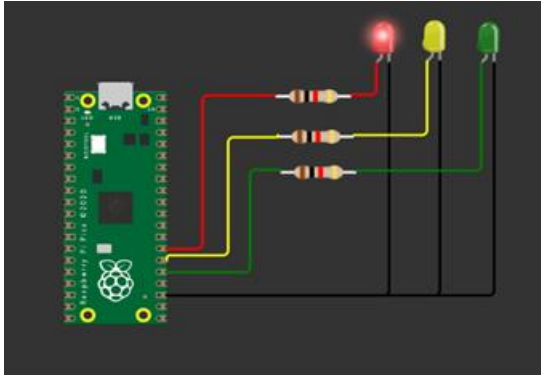
PROGRAM FOR TRAFFIC LIGHT:

```
void setup() {  
  
    Serial1.begin(9600);  
    pinMode(21, OUTPUT);  
    pinMode(20, OUTPUT);  
    pinMode(19, OUTPUT);  
}  
  
void loop() {  
    digitalWrite(21, HIGH);  
    delay(3000);  
    digitalWrite(21, LOW);  
    digitalWrite(20, HIGH);  
    delay(3000);  
    digitalWrite(20, LOW);  
    digitalWrite(19, HIGH);  
    delay(3000);  
    digitalWrite(19, LOW);  
}
```

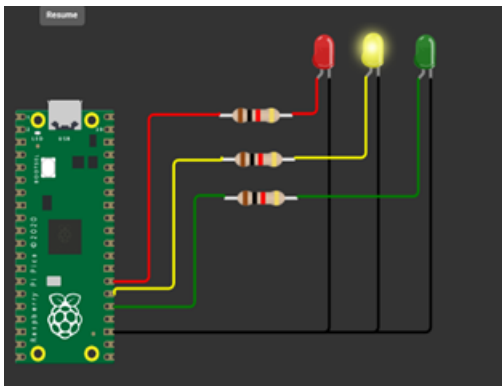
OUTPUT:

Traffic Lights For Raspberry Pi

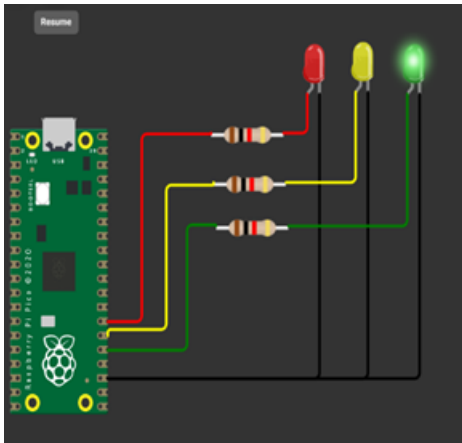
Blinking Red Light:



Blinking Yellow Light:



Blinking Green Light:



BLINKING LED:

PROGRAM FOR BLINKING LED:

Python code:

```
void setup() {
```

```
Serial.begin(9600);  
pinMode(22, OUTPUT);  
}  
  
void loop() {  
  digitalWrite(22, HIGH);  
  Serial.println("LED ON");  
  delay(2000);  
  digitalWrite(22, LOW);  
  Serial.println("LED OFF");  
  delay(2000);  
}
```

Output:

Blinking LED For Raspberry pi:

