

### ASSIGNMENT – 03

#### PYTHON IDE PROGRAMMING

ASSIGNMENT NUMBER	03
STUDENT NAME	INDHUJA M
STUDENT ROLL NO	951819104009

**WRITE A PYTHON CODE FOR BLINKING LED AND TRAFFIC LIGHT.**

#### **PROGRAM**

**# Python code**

**# Blink an LED**

**import RPi.GPIO as gpio**

**from time import sleep**

**gpio.setwarnings(False)**

**gpio.setmode(GPIO.BOARD)**

**gpio.setup(23, GPIO.OUT, initial=GPIO.LOW)**

**while True:**

**gpio.output(23, GPIO.HIGH)**

**sleep(1)**

**gpio.output(23, GPIO.LOW)**

**sleep(1)**

**# Traffic Light**

**import RPi.GPIO as gpio**

**from time import sleep**

**gpio.setwarnings(False)**

**gpio.setmode(GPIO.BOARD)**

```
gpio.setup(23, GPIO.OUT, initial=GPIO.LOW) # Red
gpio.setup(24, GPIO.OUT, initial=GPIO.LOW) # Yellow
gpio.setup(25, GPIO.OUT, initial=GPIO.LOW) # Green
```

```
while True:
```

```
    gpio.output(23, GPIO.HIGH)
    sleep(50)
    gpio.output(24, GPIO.HIGH)
    sleep(5)
    gpio.output(23, GPIO.LOW)
    sleep(5)
    gpio.output(24, GPIO.LOW)
    gpio.output(25, GPIO.HIGH)
    sleep(50)
    gpio.output(25, GPIO.LOW)
    gpio.sleep(1)
```