

# MARTHANDAM COLLEGE OF ENGINEERING AND TEHNOLOGY

## Department of Information Technology

### Assignment – 3

**Domain: IOT**

**Topic :**

Write python ode for blinking LED and traffic light for Raspberry Pi.

**Name:** Akash

**Code:-**

**blinking LED:**

```
# Raspberry Pi 3 Model B
import RPi.GPIO as GPIO
from time import sleep
GPIO.setmode(GPIO.BCM)
GPIO.setwarnings(False)
LED = 14
GPIO.setup(LED,GPIO.OUT)
while True:
    GPIO.output(LED,GPIO.HIGH)
    sleep(1)
    GPIO.output(LED,GPIO.LOW)
    sleep(1)
```

## **traffic light :**

# Raspberry Pi 3 Model B

```
import RPi.GPIO as GPIO
```

```
from time import sleep
```

```
GPIO.setmode(GPIO.BCM)
```

```
GPIO.setwarnings(False)
```

```
Red_LED = 14
```

```
Green_LED = 15
```

```
Yellow_LED = 23
```

```
GPIO.setup(LED,GPIO.OUT)
```

```
def stop():
```

```
    GPIO.output(Red_LED,GPIO.HIGH)
```

```
    sleep(30)
```

```
    GPIO.output(Red_LED,GPIO.LOW)
```

```
    sleep(30)
```

```
def be_redy():
```

```
    GPIO.output(Yellow_LED,GPIO.HIGH)
```

```
    sleep(10)
```

```
    GPIO.output(Yellow_LED,GPIO.LOW)
```

```
    sleep(10)
```

```
def go():  
    GPIO.output(Green_LED,GPIO.HIGH)  
    sleep(50)  
    GPIO.output(Green_LED,GPIO.LOW)  
    sleep(50)
```

```
while True:  
    go()  
    be_redy()  
    stop()
```