

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.

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Code:-

blinking LED:

```
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 :

```
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()
```