



V.S.B. ENGINEERING COLLEGE

(Approved by AICTE, New Delhi, Affiliated to Anna University)

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ASSIGNMENT-3

Domain Name : Internet Of Things

Team Member : K.Rajeswari

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Aim :

To write python code for blinking LED and Traffic lights for Raspberry pi. Only python code is enough, no need to execute in raspberry pi.

CODE :

Python code for blinking LED:

```
$ sudo apt-get install python-
```

```
rpi.gpio python3-rpi.GPIO
```

```
Import RPi.GPIO as GPIO
```

```
from time import sleep
```

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

```
GPIO.setmode(GPIO.BOARD)
```

```
GPIO.setup(8,GPIO.OUT, initial=GPIO.LOW)
```

```
value to low(off)
```

```
While True:
```

```
GPIO.output(8,GPIO.HIGH)
```

```
sleep(1)
```

```
GPIO.output(8,GPIO.LOW)
```

```
sleep(1)
```

```
$ python blinking_led.py
```

Python code for traffic lights:

```
From gpiozero import LED
```

```
led = LED(17)
```

```
led.on()
```

```
led.off()
```

```
from gpiozero import TrafficLights
```

```
from time import sleep
```

```
lights = TrafficLight(25,8,7)
```

```
while True:
```

```
    light.green.on()
```

```
    sleep(1)
```

```
    light.amber.on()
```

```
    sleep(1)
```

```
    light.red.on()
```

```
    sleep(1)
```

```
    lights.off()
```

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