

V.S.B. ENGINEERING COLLEGE

KARUR

ASSIGNMENT-3

TEAM MEMBER NAME : R MAHALAKSHMI

REGISTER NUMBER : 922519106086

AIM:

To build a python code for blinking LED and traffic lights for 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 = TrafficLights(25,8,7)
while True:
    light.green.on()
    sleep(1)
    light.amber.on()
    sleep(1)
    light.red.on()
    sleep(1)
    lights.off()
```