

VSB Engineering College, Karur-639111

Department of Electronics and Communication Engineering

IOT Assignment

Topic : Write python code for blinking LED and Traffic lights

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CODE:-

Blinking Led:-

```
import RPi.GPIO as GPIO # Import Raspberry Pi GPIO library

from time import sleep # Import the sleep function from the time module

GPIO.setwarnings(False) #Ignore warning for now

GPIO.setmode(GPIO BOARD) #Use physical pin numbering
GPIO.setup(8,GPIO.OUT,initial=GPIO.LOW)#Set pin 8 to be an output pin and
set initial value to low(off) While True:

    #Run forever GPIO.output(8,GPIO.HIGH) #Turn on

    sleep(1) #Sleep for 1 second

    GPIO.output(8,GPIO.LOW) #Turn off

    sleep(1)#Sleep for 1 second
```

Traffic Light control:-

```
from
gpiozero
import
Button,
TrafficLights,
Buzzer

        from time import sleep
```

```
buzzer = Buzzer(15)
button = Button(21)
lights = TrafficLights(25, 8, 7)
```

```
while True:
    button.wait_for_press()
    buzzer.on()
    lights.green.on()
    sleep(1)
    lights.amber.on()
    sleep(1)
    lights.red.on()
    sleep(1)
    lights.off()
    buzzer.off()
```