

Department of Electronics and Communication Engineering
IOT Assignment 3

Topic : Write python code for blinking LED and Traffic lights

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CODE:-

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()
```

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
```