

### Assignment 3 :

**Topic :** Write python code for blinking LED and Traffic lights

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
```