

Assignment -3

python code for blinking LED and Traffic lights for Raspberry pi

Blinking LED

```
import RPi.GPIO as GPIO    # Import Raspberry Pi GPIO library
from time import sleep     # Import the sleep function from the timemodule
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 1s
```

Traffic lights

```
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()
    light.green.on()
    sleep(1)
    lights.amber.on()
    sleep(1)
    lights.red.on()
    sleep(1)
    lights.off()
    buzzer.off()
```

