

Assignment - 3

Assignment Date	03 October 2022
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Maximum Marks	2 Marks

LED BLINK AND TRAFFIC LIGHT SYSTEM

```
import RPi.GPIO as GPIO
from time import sleep
GPIO.setwarnings(False)
GPIO.setmode(GPIO.BOARD)
GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW)    to low (off)
while True:
    GPIO.output(8, GPIO.HIGH)
    sleep(1)
    GPIO.output(8, GPIO.LOW)
    sleep(1)

# led blink and traffic light system
# import the required libraries
from gpiozero import Button, TrafficLights, Buzzer
from time import sleep

#buzzer for alarm
buzzer = Buzzer(15)
button = Button(21)
# pin configurations for Traffic Lights (Red,Green,Amber)
lights = TrafficLights(25, 8, 7)

# iterate the loop statements.
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()
#end of the program
```