

**Assignment -3**  
Python Programming

Assignment Date	4 October 2022
Student Name	Mr. Yashwanth M
Student Roll Number	310619106166
Maximum Marks	2 Marks

**Question-1:**

Write python code for blinking LED and traffic Lights for Raspberry Pi, only python code is enough no need to execute in raspberry pi.

**Solution:**

**LED Blinking**

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

**Traffic Light**

```
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()
```