

**Assignment -3**  
Python Programming

Assignment Date	13 October 2022
Student Name	SHALINI S
Student Roll Number	820419104066
Maximum Marks	2 Marks

**Question-1:**

**Write python code for blinking LED and Traffic lights for Raspberry pi**

Solution:

Blinking LED

```
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 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()
```