

Assignment -3
Python Programming

Assignment Date	6 October 2022
Student Name	Ms.S.Suganya
Student Roll Number	422719106021
Maximum Marks	2 Marks

Question:

Write python code for blinking LED and Traffic lights for Raspberry pi. Only python code is enough, no need to execute in raspberry pi. Note: you are allowed to use web search and complete the assignment.

Code:

```
//Code for Blinking LED//
```

```
Import RPi.GPIO as GPIO
Import time
LED = 40
GPIO.setwarnings(False)
GPIO.setmode(GPIO.BOARD)
GPIO.setup(LED, GPIO.OUT)
```

While True:

```
    GPIO.output(LED,GPIO.HIGH)
    Time.sleep(1)
    GPIO.output(LED,GPIO.LOW)
    Time.sleep(1)
```

```
//Code for Traffic Light System//
```

```
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()
```