

Assignment -3

Python Programming

Assignment Date	05 October 2022
Student Name	GUNTHA HARSHAVARDHAN
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Maximum Marks	2 Marks

Question-1:

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

SOLUTION:

BLINKING LED

[CODE](#)

```
import time

GPIO.setmode(GPIO.BOARD)
GPIO.setup(9,GPIO.OUT)    while
True:

    GPIO.output(9,True)
    print("LED IS ON")
    time.sleep(1)
    GPIO.output(9,False)
    print("LED IS OFF")
    time.sleep(1)
```

TRAFFIC LIGHT

CODE

```
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()
```