

Assignment -3
Python Programming

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| Assignment Date | 12 October 2022 |
| Student Name | Mr. Meiyarasu V |
| Student Roll Number | 310619106076 |
| 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:

Blinking of LED

```
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()
```

Traffic Light

```
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)
```