

Assignment -3
Python Programming

Assignment Date	5th October 2022
Student Name	Mr. P. Sakthi Murugan
Student Roll Number	73771913162
Maximum Marks	2 Marks

Question:

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

Solution:

Program to interface LED with Raspberry pi:

```
from gpiozero import Button, LED
led = LED(25)
button = Button(21)
while True:
    button.wait_for_press()
    led.on()
    print("Pressed")

    button.wait_for_release()
    led.off()
    print("Released")
```

Program for Traffic Lights:

```
from gpiozero import LED
from time import sleep

red = LED(22)
amber = LED(27)
green = LED(17)
while True:
    red.on()
    sleep(1)
    amber.on()
    sleep(1)
    green.on()
    sleep(1)
    red.off()
    sleep(1)
    amber.off()
    sleep(1)
    green.off()
```