

Assignment 3

Python Programming assignment Date	5th October 2022
Student Name	Mr. Mishal Rai
Student Roll Number	730909104055
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()
```

