

**Assignment -3**  
**Python Programming**

|                     |                               |
|---------------------|-------------------------------|
| Assignment Date     | 05 <sup>th</sup> October 2022 |
| Student Name        | Ms.Ranjani M                  |
| Student Roll Number | 73771913157                   |
| Maximum Marks       | 2 Marks                       |

**Question-1:**

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

**Solution:**

- Python code for blinking LED using 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")
```

- Python code for Traffic Lights using Raspberry pi.

```
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()