

### Assignment 3

AssignmentDate	05October 2022
Student Name	G.Santhosh
Student Roll Number	73771913167
Maximum Marks	2 marks

#### Question 01

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

#### Solution:

##### Code for LED interface 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")
```

##### Code for Traffic light

```
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()
```