

### IBM Assignment 3

Assignment date	06 October 2022
Student Name	Gowtham J
Student Roll Number	73771913402
Maximum Marks	2 marks

#### Question:

#### 1) Write python code for blinking LED and Traffic Lights for Raspberry pi

Solution:

Program 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")
```

Program for Traffic Lights with 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()