

## Assignment -3

### Python Programming

Assignment Date	13 October 2022
Student Name	R.Sanmathi
Student Roll Number	820419104057
Maximum Marks	2 Marks

#### Question-1:

**1. Write a python code for blinking LED and Traffic lights for Raspberry Pi?**

##### **Blinking LED**

```
Import RPi.GPIO as GPIO
```

```
From time import sleep
```

```
GPIO.setwarnings(False)
```

```
GPIO.setmode(GPIO.BOARD)
```

```
GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW)
```

##### **While True: # Run forever**

```
GPIO.output(8, GPIO.HIGH) # Turn on
```

```
Sleep(1)
```

```
GPIO.output(8, GPIO.LOW) # Turn off
```

Sleep(1)

### **Traffic lights**

From gpiozero import Button, TrafficLights, Buzzer

From time import sleep

Buzzer = Buzzer(15)

Button = Button(21)

Lights = TrafficLights(25, 8, 7)

### **While True:**

Button.wait\_for\_press()

Buzzer.on()

Light.green.on()

Sleep(1)

Lights.amber.on()

Sleep(1)

Lights.red.on()

Sleep(1)

Lights.off()

Buzzer.off()