

### **Assignment -3**

Assignment Date	8 October 2022
Student Name	SANGAVI D
Student Roll Number	2019504051
Maximum Marks	2 Marks

#### **Question:**

Write a Python code for blinking LED and Traffic lights for Raspberry Pi.  
(Only Python code is enough)

#### **Code:**

//Code for Blinking LED//

```
import RPi.GPIO as GPIO
import time
LED = 40
GPIO.setwarnings(False)
GPIO.setmode(GPIO.BOARD)
GPIO.setup(LED, GPIO.OUT)
```

while True:

```
    GPIO.output(LED,GPIO.HIGH)
    time.sleep(1)
    GPIO.output(LED,GPIO.LOW)
    time.sleep(1)
```

//Code for Traffic Light System//

```
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()
```