

### **ASSIGNMENT-3**

#### **PROBLEM STATEMENT**

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

#### **SOURCE CODE:**

##### **BLINKING LED CODE:**

```
import RPi.GPIO as GPIO
from time import sleep

LED = 30

GPIO.setwarnings(False)
GPIO.setmode(GPIO.BOARD)
GPIO.setup(LED, GPIO.OUT, initial=GPIO.LOW)

while True:
    GPIO.output(LED, GPIO.HIGH)
    sleep(1)
    GPIO.output(LED, GPIO.LOW)
    sleep(1)
```

##### **TRAFFIC LIGHTS:**

```
from gpiozero import Button, TrafficLights, Buzzer
from time import sleep

buzzer = Buzzer
```

```
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()
```