

### **ASSIGNMENT-3**

**TEAM ID : PNT2022TMID48188**

**NAME : MANIKANDAN B**

**ROLL NO : 912719106701**

#### **Python code for blinking LED**

**Program:**

```
import Rpi.GPIO as GPIO
import time
LED_PIN=17
GPIO.setmode(GPIO.BCM)
GPIO.setup(LED_PIN,GPIO.OUT)
while true:
    GPIO.output(LED_PIN,GPIO.HIGH)
    time.sleep(1)
    GPIO.output(LED_PIN,GPIO.LOW)
    time.sleep(1)
GPIO.cleanup()
```

#### **Traffic light**

```
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()
```