

ASSIGNMENT-3

OBJECTIVE:

Blinking of LED and Traffic Lights For Raspberry Pi

CODE:

```
import time

import RPi.GPIO as GPIO

GPIO.setmode(GPIO.BOARD)

GPIO.setup(11,GPIO.OUT)

While True:

    GPIO.output(11,True)

    time.sleep(1)

    GPIO.output(11,False)

    Time.sleep(1)

from gpiozero import Button,TrafficLights,Buzzerbuzzer=

Buzzer(15)

button =Button(21)

lights=TrafficLights(25,8,7)while

True:button.wait_for_press()

lights.green.on()

    sleep(1)

    lights.amber.on()

    sleep(1)

    lights.red.on()
```

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```
sleep(1) lights.off()
```

```
while True:
```

```
    lights.on()
```

```
    buzzer.off()
```

```
    button.wait_for_press()
```

```
    lights.off()
```

```
    buzzer.on()
```

```
    button.wait_for_release()
```

```
while True:
```

```
    lights.blink()
```

```
    buzzer.beep()
```

```
    button.wait_for_press()
```

```
    lights.off()
```

```
    buzzer.off()
```

```
    button.wait_for_release()
```