

EXPERIMENT NO: 8

Roll No:

Class: BE

Division: A

Date:

TITLE: Study of Connectivity and configuration of Raspberry-Pi circuit with basic peripherals, LEDS. Understanding GPIO and its use in program.

AIM: To study the connectivity and configuration of a Raspberry Pi circuit with basic peripherals like LEDs, and understand the use of GPIO pins in programming for input/output control.

Task: 4 LEDs blinking

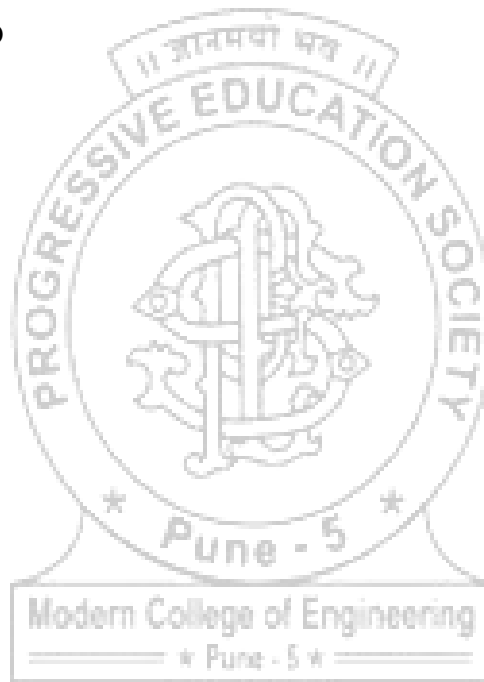
Source Code:

```
import time
from gpiozero import LED
```

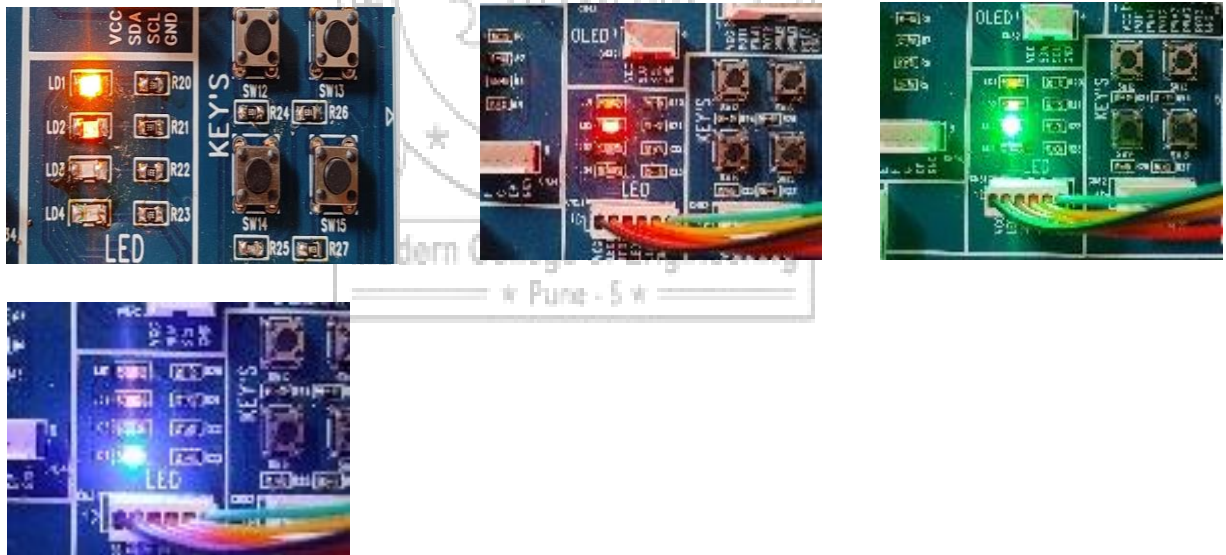
```
led1 = LED(8)
led2 = LED(10)
led3 = LED(9)
led4 = LED(11)
```

```
while(1):
    try:
        led1.off()
        print("led1 off")
        time.sleep(0.5)
        led1.on()
        print("led1 on")
        led2.off()
        print("led2 off")
        time.sleep(0.5)
        led2.on()
        print("led2 on")
        led3.off()
        print("led3 off")
        time.sleep(0.5)
        led3.on()
        print("led3 on")
        led4.off()
        print("led4 off")
        time.sleep(0.5)
        led4.on()
        print("led4 on")
        time.sleep(0.5)
```

```
except KeyboardInterrupt:
    print("closing")
    exit()
```



Output:



PES's Modern College of Engineering, Department of Electronics & Telecommunication Engineering

EXPERIMENT NO: 8

