

SONA COLLEGE OF TECHNOLOGY

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Domain: IOT

IBM ASSIGNMENT-3

- i) Python code for blinking LED**
- ii) Python code for Traffic lights**

Both for Raspberry pi

i) LED Blinking

```
from gpiozero import Button, LED
```

```
led = LED(25)
```

```
button = Button(21)
```

```
while True:
```

```
    button.wait_for_press()
```

```
    led.on()
```

```
    print("Pressed")
```

```
    button.wait_for_release()
```

```
    led.off()
```

```
    print("Released")
```

ii) Traffic lights control

```
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()
```