

## **PERSONAL ASSISTANCE FOR SENIORS WHO ARE SELF-RELIANT ASSIGNMENT-3**

Write a Python Code for blinking LED and Traffic Lights for Raspberry pi

### **COMPONENTS**

Component	GPIO pin
Button	21
Red LED	25
Amber LED	8
Green LED	7
Buzzer	15

### **CODE**

```
lights.green.on()
sleep(1)
lights.amber.on()
sleep(1)
lights.red.on()
sleep(1)
lights.off()
From gpiozero import Button
Button = Button(21)
While True:
Print(button.is_pressed)
While True:
If button.is_pressed:
Print("Hello")
Else:
Print("Goodbye")
```

While True:

Button.wait\_for\_press()

Print("Pressed")

Button.wait\_for\_release()

Print("Released")

From gpiozero import button,

Led = LED(25)

While True:

Button.wait\_for\_press()

Led.on()

Button.wait\_for\_release()

Led.off()

While True:

Led.on()

Button.wait\_for\_press()

Led.off()

Button.wait\_for\_release()

While True:

Led.blink()

Button.wait\_for\_press()

Led.off()

Button.wait\_for\_release()

From gpiozero import button,

Lights = TrafficLights(25,8,7)

While True:

Button.wait\_for\_press()

lights.on()

Button.wait\_for\_release()

lights.off()

```
While True:
    Button.wait_for_press()
    Lights.blink()
    Button.wait_for_release()
    lights.off()
from gpiozero import button,
buzzer = Buzzer(15)
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()
    from time import sleep
    while True:
        lights.green.on()
        sleep(1)
```

```
lights.amber.on()
```

```
sleep(1)
```

```
lights.red.on()
```

```
sleep(1)
```

```
lights.off()
```

```
while True:
```

```
    button.wait_for_press()
```