

**TITLE:     HAZARDOUS AREA MONITORING FOR INDUSTRIAL PLANT POWERED BY IOT**

**ROLL NO: CITC1904056**

**NAME :   SUJITHRAJ.P**

**TEAM ID: PNT2022TMID52802**

```
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")
```

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from gpiozero import Button
button= Button(21)
while True:
    print(button.is_pressed)
    while True:
        if button.is_pressed:
            print("Hello")
        else:
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            button.wait_for_press()
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### Add an LED

```
from gpiozero import Button, LED

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, LED
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()
```

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## Traffic lights

```
from gpiozero import Button, TrafficLights

lights = TrafficLights(25, 8, 7)

while True:
    button.wait_for_press()
    lights.on()
    button.wait_for_release()
    lights.off()

while True:
    lights.blink()
    button.wait_for_press()
    lights.off()
    button.wait_for_release()
```

```
from gpiozero import Button, TrafficLights
lights = TrafficLights(25, 8, 7)
while True:
    button.wait_for_press()
    lights.on()
    button.wait_for_release()
    lights.off()
while True:
    lights.blink()
    button.wait_for_press()
    lights.off()
    button.wait_for_release()
```

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### Traffic lights sequence

```
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()
    lights.green.on()
    sleep(1)
    lights.amber.on()
    sleep(1)
    lights.red.on()
    sleep(1)
    lights.off()
```

```
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()
    lights.green.on()
    sleep(1)
    lights.amber.on()
    sleep(1)
    lights.red.on()
    sleep(1)
    lights.off()
```