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

ROLL NO: CITC1904045

NAME : SATHEESH KUMAR S

TEAM ID: PNT2022TMID52802

```
fromgpiozeroimport Button

button= Button(21)

whileTrue:

print(button.is_pressed)

whileTrue:

ifbutton.is_pressed:

print("Hello")

else:

print("Goodbye")

whileTrue:

button.wait_for_press()

print("Pressed")

button.wait_for_release()

print("Released")
```

```
fromgpiozeroimport Button
button= Button(21)
whileTrue:
print(button.is_pressed)
whileTrue:
ifbutton.is_pressed:
print("Hello")
else:
print("Goodbye")
whileTrue:
button.wait_for_press()
print("Pressed")
button.wait_for_release()
print("Released")
```

Add an LED

```
fromgpiozeroimport Button, LED

led= LED(25)

whileTrue:

button.wait_for_press()

led.on()

button.wait_for_release()

led.off()

whileTrue:

led.on()

button.wait_for_press()

led.off()

button.wait_for_release()

whileTrue:

led.blink()

button.wait_for_press()

led.off()

button.wait_for_release()
```

```
fromgpiozeroimport Button, LED
led= LED(25)
whileTrue:
button.wait_for_press()
led.on()
button.wait_for_release()
led.off()
whileTrue:
led.on()
button.wait_for_press()
led.off()
button.wait_for_release()
whileTrue:
led.blink()
button.wait_for_press()
led.off()
button.wait_for_release()
```

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Traffic lights

```
fromgpiozeroimport Button, TrafficLights

lights=TrafficLights(25, 8, 7)

whileTrue:

button.wait_for_press()

lights.on()

button.wait_for_release()

lights.off()

whileTrue:

lights.blink()

button.wait_for_press()

lights.off()

button.wait_for_release()
```

```
fromgpiozeroimport Button, TrafficLights
lights=TrafficLights(25, 8, 7)
whileTrue:
button.wait_for_press()
lights.on()
button.wait_for_release()
lights.off()
whileTrue:
lights.blink()
button.wait_for_press()
lights.off()
button.wait_for_release()
```

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Traffic lights sequence

```python
from time import sleep
whileTrue:
lights.green.on()
sleep(1)
lights.amber.on()
sleep(1)
lights.red.on()
sleep(1)
lights.off()
whileTrue:
button.wait_for_press()
lights.green.on()
sleep(1)
lights.amber.on()
sleep(1)
lights.red.on()
sleep(1)
lights.off()
```

```python
from time import sleep
whileTrue:
lights.green.on()
sleep(1)
lights.amber.on()
sleep(1)
lights.red.on()
sleep(1)
lights.off()
whileTrue:
button.wait_for_press()
lights.green.on()
sleep(1)
lights.amber.on()
sleep(1)
lights.red.on()
sleep(1)
lights.off()
```