ASSIGNMENT-03

TEAM ID : PNT2022TMID52822

ROLL NO: CITC1904079

NAME: Guhan T

CODE:

```python
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")
```

Adding an LED:

```python
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()
```

Traffic lights

```python
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()
```

Traffic lights sequence

```python
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()
```