

TITLE: CREATE A PYTHON CODE FOR BLINKING LED'S AND TRAFFIC LIGHTS FOR RASPBERRY PI.

Roll: CITC2004208

Name: SOORYA R

```
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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        print("Pressed")
        button.wait_for_release()
        print("Released")
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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()
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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:

```
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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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:

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