

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

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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:
            print("Goodbye")
        while True:
            button.wait_for_press()
            print("Pressed")
            button.wait_for_release()
            print("Released")
```

```
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")
```

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()
```

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()
```

```
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

```
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()
```