

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

Roll: CITC2004202

Name: KUMARESH V

```
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")
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        while True:
            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()
```

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| main.py | Run | Shell |
|--|-----|--|
| <pre>1 x=input("enter value:") 2 stop_light=int(x) 3 while True: 4 if stop_light>=1 and stop_light<=10: 5 print("Green light") 6 stop_light+=1 7 elif stop_light<=20: 8 print('yellow light') 9 elif stop_light<=30: 10 print('Red light') 11 stop_light+=1 12 else: 13 stop_light=0 14 break</pre> | | <pre>enter value:30 Red light > </pre> |