

TITLE: CREATING A Python code for blinking led's and traffic lights for Raspberry pi.

Roll: CITC1904121

Name: M . VENKAT RAMANAN

```
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()
```

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()
```

Traffic lights sequence

```
from time import sleep
```

```
while True:
```

```
    lights.green.on()
```

```
    sleep(1)
```

```
    lights.amber.on()
```

```
    sleep(1)
```

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```
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()
```