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

Roll: CITC2004203

Name: NOWTHAM M

```
fromgpiozeroimport Button
button= Button(21)
whileTrue:
print(button.is_pressed)
whileTrue:
ifbutton.is_pressed:
print("Hello")
else:
print("Goodbye")
whileTrue:
button.wait_for_press()
print("Pressed")
button.wait_for_release()
print("Released")
```

```
fromgpiozeroimport Button
button= Button(21)
whileTrue:
print(button.is_pressed)
whileTrue:
ifbutton.is_pressed:
print("Hello")
else:
print("Goodbye")
whileTrue:
button.wait_for_press()
print("Pressed")
button.wait_for_release()
print("Released")
```

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Add an LED

fromgpiozeroimport Button, LED

led= LED(25)

whileTrue:

button.wait_for_press()

led.on()

button.wait_for_release()

led.off()

whileTrue:

led.on()

button.wait_for_press()

led.off()

button.wait_for_release()

whileTrue:

led.blink()

button.wait_for_press()

led.off()

button.wait_for_release()

```
fromgpiozeroimport Button, LED
led= LED(25)
whileTrue:
button.wait_for_press()
led.on()
button.wait_for_release()
led.off()
whileTrue:
led.on()
button.wait_for_press()
led.off()
button.wait_for_release()
whileTrue:
led.blink()
button.wait_for_press()
led.off()
button.wait_for_release()
```

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Traffic lights

```
fromgpiozeroimport Button, TrafficLights

lights=TrafficLights(25, 8, 7)

whileTrue:

button.wait_for_press()

lights.on()

button.wait_for_release()

lights.off()

whileTrue:

lights.blink()

button.wait_for_press()

lights.off()

button.wait_for_release()
```

```
fromgpiozeroimport Button, TrafficLights
lights=TrafficLights(25, 8, 7)
whileTrue:
button.wait_for_press()
lights.on()
button.wait_for_release()
lights.off()
whileTrue:
lights.blink()
button.wait_for_press()
lights.off()
button.wait_for_release()
```

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Traffic lights sequence

```
from time import sleep
whileTrue:
lights.green.on()
sleep(1)
lights.amber.on()
sleep(1)
lights.red.on()
sleep(1)
lights.off()
whileTrue:
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
whileTrue:
lights.green.on()
sleep(1)
lights.amber.on()
sleep(1)
lights.red.on()
sleep(1)
lights.off()
whileTrue:
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

```
x=input("enter value:")
stop_light=int(x)
while True:
    if stop_light>=1 and stop_light<=10:
        print("Green light")
        stop_light+=1
    elif stop_light<=20:
        print('yellow light')
    elif stop_light<=30:
        print('Red light')
        stop_light+=1
    else:
        stop_light=0
    break
```

```
enter value:30
Red light
>
```