

Assignment 3

Write Python Code for Blinking LED and Traffic Lights for Raspberry pi?

```
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, 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()
```

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```
led.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()

from gpiozero import Button, TrafficLights, Buzzer

buzzer = Buzzer(15)

while True:

    lights.on()

    buzzer.off()

    button.wait_for_press()

    lights.off()

    buzzer.on()

    button.wait_for_release()

while True:

    lights.blink()

    buzzer.beep()

    button.wait_for_press()

    lights.off()

    buzzer.off()

    button.wait_for_release()

from time import sleep

while True:
```

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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()