

ASSIGNMENT3

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BATCH:-B9-3A5E

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.blink()

    button.wait_for_press()

    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:
    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()
```