ASSIGNMENT -3

Create a Python code for blinking LEDs and traffic lights for Raspberry pi

Add an LED

```python
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

```python
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

```python
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()
```