Assignment-3:

Write the python code for blinking LED and Traffic lights for raspberry pi.

BUTTON

```
from gpiozero import Button
button = Button(21)
while True:
print(button.is_pressed)

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()
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 SEQUENCES

```
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()
```