ASSIGNMENT 3

Date	30 October 2022
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Write python code for blinking LED and Traffic lights for Raspberry pi. Only python code is enough, no need to execute in raspberry pi. Note: you are allowed to use web search and complete the assignment

```python
#Sudharsan Assignment
#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()
```

```python
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 SEQUENCES
```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()
```