Assignment - 3

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Maximum marks	2 marks

Question-1:

Write python code for blinking LED and Traffic lights for Raspberry pi. Only python code is enough, no need to execute in raspberry pi.

Program:

```
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()
       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()
```