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")
```

```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()

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()
```

```python
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()
```