Assignment -3

Assignment Date	08 October 2022
Student Name	Udhayasankar V
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Maximum Marks	2 Marks

Question-1:

Write python code for blinking LED for Raspberry pi.

Solution:

```
import RPi.GPIO as GPIO
import time
GPIO.setmode(GPIO.BCM)
cnt = 0
MAIL_CHECK_FREQ = 1 # change LED status every 1
seconds
RED_LED = 4
GPIO.setup(RED_LED, GPIO.OUT)
while True:
    ifcnt == 0 :
       GPIO.output(RED_LED, False)
       cnt = 1
    else:
        GPIO.output(RED_LED, True)
        cnt = 0
        time.sleep(MAIL_CHECK_FREQ)
        GPIO.cleanup()
```

Question-2:

Write python code for blinking Traffic lights for Raspberry pi.

Solution:

```
from gpiozero import Button, TrafficLights, Buzzer

from time import sleep

buzzer = Buzzer(15)

button = Button(21)

lights = TrafficLights(25, 8, 7)

while True:

        button.wait_for_press()

        buzzer.on()

        light.green.on()

        sleep(1)
```

```
lights.amber.on()

sleep(1)

lights.red.on()

sleep(1)

lights.off()

buzzer.off()
```