ASSIGNMENT-3

Assignment Date	27-September-2022
Student Name	Mr. VELA GANESH
Student Roll Number	111519104164
Maximum Marks	2 Marks

Question-1:

LED BLINKING

CODE:

```python
import RPi.GPIO as GPIO
    from time import sleep

    GPIO.setwarnings(False)
    GPIO.setmode(GPIO.BOARD)
    GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW)

    while True:                          #infinite loop
        GPIO.output(8, GPIO.HIGH)        # Turn on
        print("The LED  light is ON")
        sleep(2)                         # Sleeps for 2 seconds

        GPIO.output(8, GPIO.LOW)         # Turn off
        print("The LED  light is OFF")
        sleep(2)                         # Sleeps for 2 seconds
```

Question-2

TRAFFIC_LIGHT_CODE

CODE:

```python
from gpiozero import LED
from time import sleep


red= LED(17)        #pin numbers connected to Led's
amber=(22)
green=(27)


while True:
    red.on()                #RED light
    print("Red light is ON")
    for i in range(60,0,-1):
        print("Remaining time: ",i)
        sleep(1)
    red.off()

    amber.on()              # AMBER light
    print("Yellow light is ON")
    for i in range(5,0,-1):
        print("Remaining time: ",i)
        sleep(1)
    amber.off()

    green.on                #GREEN light
    print("Green light is ON")
    for i in range(40,0,-1):
        print("Remaining time: ",i)
        sleep(1)
    green.off()
```