ASSIGNMENT-3

Student Name	AswinPandi P S
Student Roll Number	92172019104020
Maximum Marks	2 Marks

Question-1:

LED BLINKING

CODE:

```
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 LEDfrom 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()
```