Assignment -3
Python Programming

Assignment Date	08 Octoberr 2022
Student Name	Priyanka G
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Maximum Marks	2 Marks

Question-1:

ASSIGNMENT TITLE:

Write a python code for blinking LED ad Traffic lights for Raspberry pi.

Blinking LED:

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

GP.setwarnings(False)

GP.setmode(GP.BOARD)

GP.setup(8,GP.OUT,initial=GP.LOW)

while True:              #infinite loop

   GP.output(8, GPIO.HIGH)      # Turn on     print("The LED
is ON")

   sleep(2)             # Sleep for 2 second

   GP.output(8, GPIO.LOW)      # Turn off     print("The
LED is OFF")

   sleep(2)             # Sleep for 2 s
```

Traffic Light Controller:

```
from gpiozero import LED
from time import sleep

red= LED(17)          #pin numbers connected to  Led's
aster=(22) green=(27) while True:

    red.on()                #RED
light    print("Red light is ON")
for i in range(100,0,1):

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

        print("Remaining     time:     ",i)
sleep(1)      aster.off()       green.on
#GREEN light

    print("Green light is ON")
for i in range(30,0,-1):

        print("Remaining
time: ",i)       sleep(1)    green.off()
```