Assignment -3

Python Programming

Assignment Date	08 Octoberr 2022
Student Name	Shanmugapriya D
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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()
```