Assignment -3

Python Programming

Assignment Date	16 october 2022
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Maximum Marks	2 Marks

Question-1:

LED blinking code

Solution:

```
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
second
```

Question 2:
TRAFFIC LIGHT RASBERRY PYTHON CODE

Solution:

```
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()
```