Assignment – 3

PYTHON PROGRAM

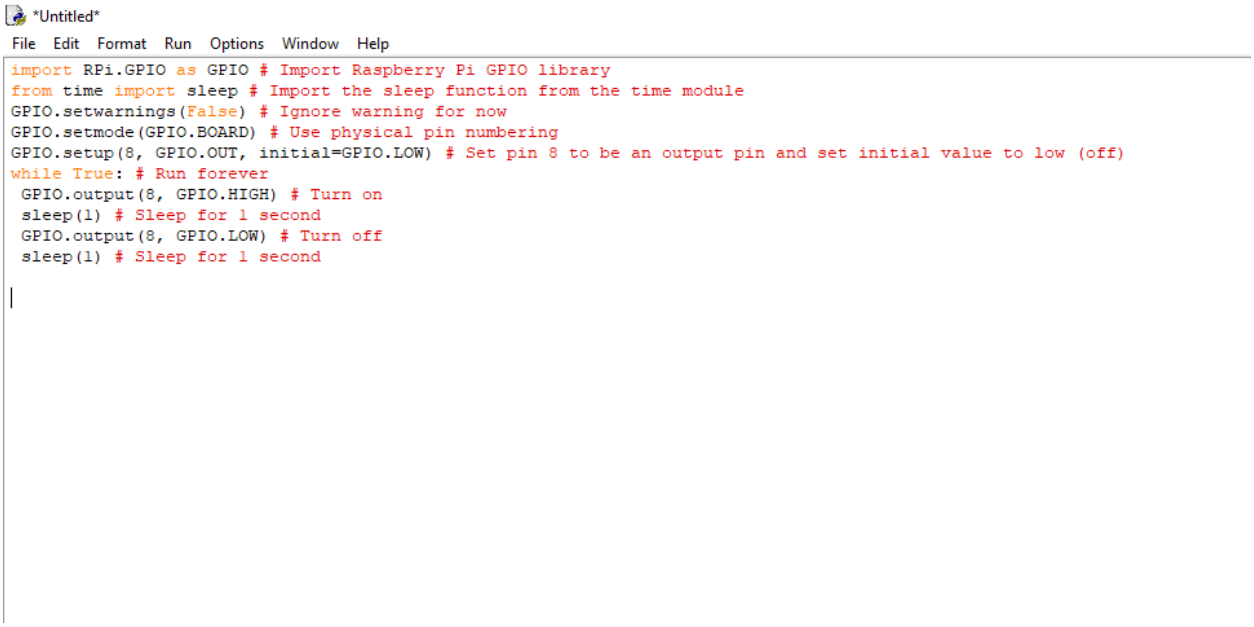
Assignment Date	07 october 2022
Student Name	N.DEVIANJU
Student Roll Number	E1194014/812419106015
Maximum Marks	2 Marks

Question 1 :

Write a python code for blinking LED in raspberry pi.

PROGRAM :

```
import RPi.GPIO as GPIO # Import Raspberry Pi GPIO library
from time import sleep # Import the sleep function from the time module
GPIO.setwarnings(False) # Ignore warning for now
GPIO.setmode(GPIO.BOARD) # Use physical pin numbering
GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW) # Set pin 8 to be an output pin and set initial value to low (off)
while True: # Run forever
 GPIO.output(8, GPIO.HIGH) # Turn on
 sleep(1) # Sleep for 1 second
 GPIO.output(8, GPIO.LOW) # Turn off
 sleep(1) # Sleep for 1 second
```



QUESTION-2 :

Write a python code for traffic light in raspberry pi .

PROGRAM

```
from gpiozero import Button , Trafficlights , Buzzer

from time import sleep


buzzer = buzzer(15)

button = Button(21)

lights = Trafficlights(25, 8,7)


while True:

        button . wait_for_press()

        buzzer . on()

        light . green . on()

        sleep(1)

        light . amber . on()

        sleep(1)
```

light . red . on()

sleep(1)

light . off()

buzzer . off