Assignment -3

Python Programming

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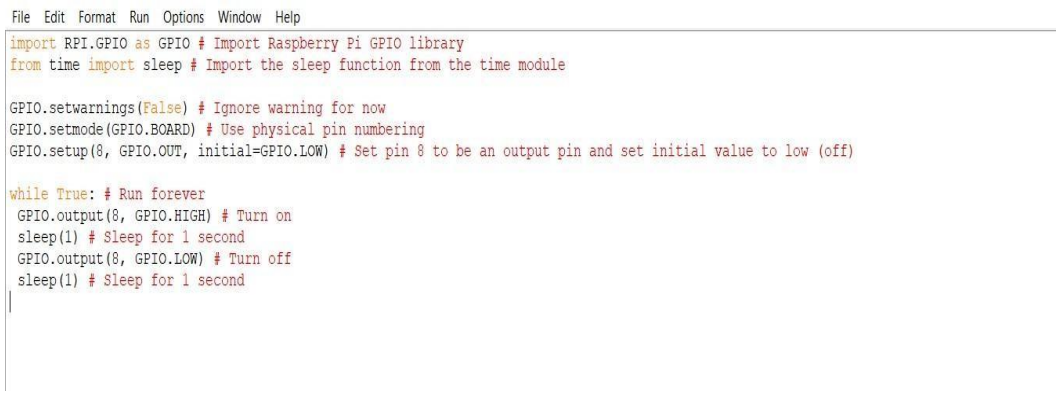
Maximum Marks	2 Marks

QUESTION-1:

Write a python code for led blinking in raspberry pi

SOLUTION:

```
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

SOLUTION:

```
from gpiozero import Button, TrafficLights, Buzzer
from time import sleep

buzzer = Buzzer(20)
button = Button(31)
lights =
TrafficLights(35,16,14)

while True:
        button.wait_for_press()
        buzzer.on()
        light.green.on()
        sleep(1)
        lights.amber.on()
        sleep(1) lights.red.on()
        sleep(1) lights.off()
        buzzer.off()
```