Assignment -3

Python Programming

Assignment Date	8 october 2022
Student Name	Kavimathi.A
Student Roll Number	211519104066
Maximum Marks	2 Marks

Question-1:

Write python code for blinking LED and Traffic lights for Raspberry

```python
import RPi.GPIO as GPIO

import time

import signal

import sys

GPIO.setmode(GPIO.BCM)

GPIO.setup(9, GPIO.OUT)

GPIO.setup(10, GPIO.OUT)

GPIO.setup(11, GPIO.OUT)

while True:

    GPIO.output(8, GPIO.HIGH)

    sleep(1)

    GPIO.output(8, GPIO.LOW)

    sleep(1)

def allLightsOff(signal, frame):

    GPIO.output(9, False)

    GPIO.output(10, False)

    GPIO.output(11, False)

    GPIO.cleanup()

    sys.exit(0)
```

```python
signal.signal(signal.SIGINT, allLightsOff)

while True:

    GPIO.output(9, True)

    time.sleep(3)

    GPIO.output(10, True)

    time.sleep(1)

    GPIO.output(9, False)

    GPIO.output(10, False)

    GPIO.output(11, True)

    time.sleep(5)

    GPIO.output(11, False)

    GPIO.output(10, True)

    time.sleep(2)

    GPIO.output(10, False)
```