Assignment -1
Python Programming

Assignment Date	6 october 2022
Student Name	Mr. Arputharaja.S
Student Roll Number	711619106002
Maximum Marks	2 Marks

Question-1:

Write python code for blinking LED and Traffic lights for Raspberry pi.

Only python code is enough, no need to execute in raspberry pi.

Note: you are allowed to use web search and complete the assignment.

Assignment to be submitted in a week

Solution:

```
LED Blinking

import RPi.GPIO as GPIO
import time
GPIO.setmode (GPIO.BOARD)
GPIO.setup(11,GPIO.out)
GPIO.output(11,1)
time.sleep(1)
GPIO.output(11,0)
time.sleep(1)
GPIO.output(11,1)
time.sleep(1)
GPIO.output(11,0)
time.sleep(1)
GPIO.cleanup()

Traffic light
import RPi.GPIO as GPIO
import time

GPIO.setmode(GPIO.BOARD)

red=7
```

```python
yellow=11
green=13

GPIO.setup(red,GPIO.OUT)
GPIO.setup(yellow,GPIO.OUT)
GPIO.setup(green,GPIO.OUT)

while True:
GPIO.output(red,True)
sleep(3)
GPIO.output(red,False)

GPIO.output(yellow,True)
sleep(1)
GPIO.output(yellow,False)

GPIO.output(green,True)
sleep(3)
GPIO.output(green,False)
GPIO.cleanup()
```