Assignment -3
Python Programming

Assignment Date	03 October 2022
Student Name	Karthik
Student Roll Number	962319104051
Maximum Marks	2 Marks

Question-1:

Create a raspberry pi python program to make an led blink

Solution :

```
import RPi.GPIO as GPIO

from time import sleep


 GPIO.setmode(GPIO.BOARD)

GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW)

while True:

   GPIO.output(22, GPIO.HIGH)

   sleep(1)

   GPIO.output(22, GPIO.LOW)

   sleep(1)
```

Question-2:

Create a raspberry pi python code for simulating a traffic light signal

Solution :

```
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:
```

```python
# red
GPIO.output(17, True)
time.sleep(3)
# yellow
GPIO.output(27, True)
time.sleep(2)
# green
GPIO.output(17, False)
GPIO.output(27, False)
GPIO.output(11, True)
time.sleep(5)
# yellow
GPIO.output(11, False)
GPIO.output(27, True)
time.sleep(2)

GPIO.output(10, False)
```