Assignment -3

Python Programming

Assignment Date	11 October 2022
Student Name	PRABAKARAN M
Student Roll Number	6113191041074

Question-1:

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

Solution:

```
import RPi.GPIO as GPIO import time import signal import sys
```

```
# Setup
GPIO.setmode(GPIO.BCM)
GPIO.setup(9, GPIO.OUT)
GPIO.setup(10, GPIO.OUT)
GPIO.setup(11, GPIO.OUT)
```

signal.signal(signal.SIGINT, allLightsOff)

```
# Loop for led light
while True:
      # RED LIGHT
       GPIO.output(9, True)
       time.sleep(3)
       # RED AND YELLOW
       GPIO.output(10, True)
       time.sleep(1)
       # GREEN LIGHT
       GPIO.output(9, False)
       GPIO.output(10, False)
       GPIO.output(11, True)
       time.sleep(5)
       # YELLOW LIGHT
       GPIO.output(11, False)
       GPIO.output(10, True)
       time.sleep(2)
      #YELLOW OFF (red start from first loop)
       GPIO.output(10, False)
```