Assignment -3

Python Programming

Assignment Date	10 September 2022
Student Name	Yuvaraj G
Student Roll Number	422419106044

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)