Assignment -1
Python Programming

Assignment Date	5 October 2022
Student Name	Ajin R
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Maximum Marks	2 Marks

Question-1:

Create a led blinking code using python for Raspberry pi platform

Program:

```
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(8, GPIO.HIGH)

    sleep(1)

    GPIO.output(8, GPIO.LOW)

    sleep(1)
```

Question-2:

Create a Traffic light simulation code using python for Raspberry pi platform

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

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


while True:
    # red
    GPIO.output(9, True)
    time.sleep(3)
    # yellow
    GPIO.output(10, True)
    time.sleep(2)
    # green
    GPIO.output(9, False)
    GPIO.output(10, False)
    GPIO.output(11, True)
    time.sleep(5)
    # yellow
    GPIO.output(11, False)
    GPIO.output(10, True)
    time.sleep(2)

    GPIO.output(10, False)
```