# Assignment 3
# Python Programming

| Date | 05 October 2022 |
|---|---|
| Student Name | Vishal A |
| Roll Number | 113119UG03118 |
| Maximum Marks | 2 Marks |

**Question 1:**
**Write python code for blinking LED for Raspberry pi**

```python
import RPi.GPIO as GPIO
from time import sleep
GPIO.setwarnings(False)
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:**
**Write python code for Traffic lights for Raspberry pi**

```python
import RPi.GPIO as GPIO
import time
import signal
import sys
GPIO.setmode(GPIO.BCM)
```

```python
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
        # Red and amber
        GPIO.output(10, True)
        time.sleep(1)
        # Green
        GPIO.output(9, False)
        GPIO.output(10, False)
        GPIO.output(11, True)
        time.sleep(5)
        # Amber
        GPIO.output(11, False)
        GPIO.output(10, True)
        time.sleep(2)
        # Amber off (red comes on at top of loop)
        GPIO.output(10, False)
```