# Assignment - 3

## Python code

| Assignment Date | 17 October 2022 |
|---|---|
| Team ID | PNT2022TMID21451 |
| Team topic | Personal Assistance Seniors who Are SelfReliant |
| Maximum Marks | 4 Marks |

**Question 1**:

Write a python code for blinking LED for Raspberry pi. Only python code is enough, no need to execute in raspberry pi.

**Solution:**

```
import RPi.GPIO as GPIO
import time
GPIO.setmode(GPIO.BCM)
cnt=0
MAIL_CHECK_FERQ=1
RED_LED=4
GPIO.setup(RED_LED,GPIO.OUT)
while True:
  if cnt==0:
    GPIO.Output(RED_LED,Flase)
    cnt=1
  else:
    GPIO.output(RED_LED,True)
    cnt=0
time.sleep(MAIL_CHECK_FREQ)
GPIO.cleanup()
```

**Question 2:**

Write a python code for Traffic light for Raspberry pi. Only python code is enough, no need to execute in raspberry pi.

**Solution:**

```
import RPi.GPIO as GPIO
from time import sleep
GPIO.setmode(GPIO.BOARD)
red=7
Yellow=11
Green=13
GPIO.setup(red.GPIO.OUT)
GPIO.setup(yellow.GPIO.OUT)
GPIO.setup(green.GPIO.OUT)
while True:
      GPIO.Output(red,True)
      Sleep(3)
      GPIO.Output(red,Flase)
      GPIO.Output(yellow, True)
      Sleep (1)
      GPIO.Output(yellow,Flase)
      GPIO.Output(green,True)
      Sleep(3)
      GPIO.Output(green,Flase)
GPIO.cleanup()
```