Assignment - 3 Raspberry Pi Simulation

Assignment Date	26th October 2022
Student Name	Crystal Glory. R
Student Roll Number	311119106009
Maximum Marks	2 Marks

Question:

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

Solution:

Traffic Lights:

```
import RPi.GPIO as GPIO
import time
try:
      def lightTraffic(led1, led2, led3,delay ):
             GPIO.output(led1,1)
             time.sleep(delay)
             GPIO.output(led1,0)
             GPIO.output(led2,1)
             time.sleep(delay)
             GPIO.output(led2,0)
             GPIO.output(led3,1)
             time.sleep(delay)
             GPIO.output(led3,0)
      GPIO.setmode(GPIO.BCM)
      button=19
      GPIO.setup(button,GPIO.IN,pull_up down=GPIO.PUD_UP)
      ledGreen =16
      ledYellow=12
      ledRed=23
      GPIO.setup(ledGreen,GPIO.OUT)
      GPIO.setup(ledYellow,GPIO.OUT)
      GPIO.setup(ledRed,GPIO.OUT)
      While True:
             input_state = GPIO.input(button)
             if input state == False:
                    print('Button Pressed')
```

Blinking LED: