Assignment - 3 **Raspberry Pi Simulation**

Assignment Date	26th October 2022
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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: