Assignment -3
Python Programming

Assignment Date	07 October 2022
Student Name	Gokulnath N
Student Roll Number	AC19UIT012
Maximum Marks	2 Marks

Question :

   Write a python code for blinking led and traffic lights for Raspberry pi.

Solution :

```
Import  RP1.GPIOas GP10
import time

GPIO. setmode(GPIO.BOARD)
GPIO.setup(7, GPIO.OUT) #Green LED
GPIO.setup(11, GPI0.OUT)#Yellow LED
GPIO.setup(13, GPI0.OUT) #Red LED
GPI0.setup(15, GP10.IN, pull_up_down=GPIO.PUD_UP)#Button
def turn_on(pin, seconds):
    GPIO.output (pin,GPIO.HIGH)
    time.sleep(seconds)
def turn_off (pin, seconds):
    GPIO.output (pin, GPIO.LOW)
    time.sleep(seconds)
try:
    while True:
        button_state=GPIO.input (15)
        if button_state== True:
            turn_on(13,2)
            tum_off(13,.1)
            turn_on(7,4)
            turn_off(7,.11)
            turn_on(11,1)
            turn_off(11,1)
        else:
            if button_state== False:
                GPI0.output (7,GPIO.LOW)
                GPIO.output(11,GPIO.LOW)
```

```python
                GP10.output (13,GPIO.LOW)
                time.sleep(.1)
except KeyboardInterrupt:
    GPIO.cleanup()
    print("Traffic Light Sequence Done")
```