ASSIGNMENT: BLINKING OF LED AND TRAFFIC LIGHTS FOR RASPBERRY Pi

DATE	07/10/2022
TEAM ID	PNT2022TMID33565
STUDENT NAME	Niranjan R
STUDENT ROLL Number	922519106100

CODE:

```
import RP1.GPIO as 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)
          GP10.output
(13,GPIO.LOW)
          time.sleep(.1)
except KeyboardInterrupt:
  GPIO.cleanup()
  print("Traffic Light
Sequence Done")
```