

ASSIGNMENT: BLINKING OF LED AND TRAFFIC LIGHTS FOR RASPBERRY Pi

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CODE:

```
import RP1.GPIO as
GP10import time
```

```
GPIO.
setmode(GPIO.BOAR
D) GPIO.setup(7,
GPIO.OUT)
#Green LED
GPIO.setup(11,
GPIO.OUT)#Yellow
LED
GPIO.setup(13,
GPIO.OUT)#Red LED
GPIO.setup(15, GP10.IN,
pull_up_down=GPIO.PU
D_UP)#Button
def turn_on(pin, seconds):
    GPIO.output
(pin,GPIO.HIG
H)
    time.sleep(seconds)
def turn_off (pin,
seconds):GPIO.output
(pin,
GPIO.LOW)
    time.sleep(second
s)try:
    while True:

button_state=GPIO.inp
ut(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:
            GPIO.output
(7,GPIO.LOW)

GPIO.output(11,GPIO.LOW)
            GP10.outp
ut(13,GPIO.LOW)
            time.sleep(.1)
except
KeyboardInterrupt:
    GPIO.cleanup()
    print("Traffic
    Light
    Sequence Done")
```