

ASSIGNMENT: BLINKING OF LED AND TRAFFIC LIGHTS FOR RASPBERRY PI

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CODE:

```
import RP1.GPIO as GP10
```

```
import time
```

```
GPIO.
```

```
setmode(GPIO.BOARD)
```

```
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.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:
            GPIO.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")
```