

### ASSIGNMENT –3

Assignment date	10 October2022
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Student Roll number	815119106038
Maximum marks	2 marks

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