

ASSIGNMENT –3

Assignment date	10 October 2022
Student name	Hariharasudhan M
Student Roll number	815119106014
Maximum marks	2 marks

Code:

```
import RP1.GPIO as GPIO

import time

GPIO.setmode(GPIO.BOARD)

sGPIO.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")
```