## **Assignment No: 3**

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Write python code for blinking LED and Traffic light for Raspberry pi:-

```
import RPi.GPIO as GPIO
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, GPIO.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)

turn_off(13,.1)

turn_on(7,4)

turn_off(7,.1)

turn_off(11,.1)

else:

if butten_state == False:

GPIO.ouutput(7,GPIO.LOW)

GPIO.ouutput(11,GPIO.LOW)

GPIO.ouutput(13,GPIO.LOW)

time.sleep(.1)

except KeyboardInterrupt:

GPIO.cleanup()

print("Traffic Light Sequence Done")
```