**Assignment No: 3**

**Team ID:** PNT2022TMID48274

**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\_on(11,1)

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")

