**ASSIGNMENT 3**

**Blinking LED using raspberry pi and python**

Import RPi.GPIO as GPIO

from time import sleep

GPIO.setwarnings(False)

GPIO.setmode(GPIO.BOARD)

GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW)

while True:

GPIO.output(8, GPIO.HIGH)

sleep(1)

GPIO.output(8, GPIO.LOW)

sleep(1)

**Traffic light functionality**

from gpiozero import LED

from time import sleep

red= LED(17)

aster=(22)

green=(27)

while True:

red.on()

print("Red light is ON")

for i in range(100,0,-1):

print("Remaining time: ",i)

sleep(1)

red.off()

aster.on()

print("Yellow light is ON")

for i in range(5,0,-1):

print("Remaining time: ",i)

sleep(1)

aster.off()

green.on

print("Green light is ON")

for i in range(30,0,-1):

print("Remaining time: ",i)

sleep(1)

green.off()