

Assignment:3

1)LED BLINKING

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: #infinite loop

GPIO.output(8, GPIO.HIGH) # Turn on

Print("The LED is ON")

Sleep(5) # Sleep for 5 second

GPIO.output(8, GPIO.LOW) # Turn off

Print("The LED is OFF")

Sleep(5) # Sleep for 5 second

2) Traffic light

from gpiozero import LED

from time import sleep

```
red= LED(17)          #pin numbers connected to Led's
amber=(22)
green=(27)
```

```
while True:

    red.on()           #RED light

    print("Red light is ON")

    for i in range(60,0,-1):

        print("Remaining time: ",i)

        sleep(1)

    red.off()


    amber.on()         # AMBER light

    print("Yellow light is ON")

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

        print("Remaining time: ",i)

        sleep(1)

    amber.off()


    green.on           #GREEN light

    print("Green light is ON")

    for i in range(40,0,-1):

        print("Remaining time: ",i)

        sleep(1)

    green.off()
```