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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()
```