ASSIGNMENT 3

Domain: IoT

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Question: Write python code for blinking LED and Traffic lights for Raspberry pi.

LED BLINKING CODE

```
import RPi.GPIO as GP from

time import sleep


GP.setwarnings(False)

GP.setmode(GP.BOARD)

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


while True:                 #infinite loop
    GP.output(8, GPIO.HIGH)          # Turn on
print("The LED is ON")
    sleep(2)               # Sleep for 2 second


    GP.output(8, GPIO.LOW)            # Turn off
print("The LED is OFF")
    sleep(2)               # Sleep for 2 second
```

TRAFFIC LIGHT RASBERRY PYTHON CODE

```
From gpiozero import LED
From time import sleep
Red= LED(17) #pin numbers connected to Led's
Aster=(22)
Green=(27)
While True:
Red.on() #RED light
Print("Red light is ON")
For I in range(100,0,-1):
Print("Remaining time: ",i)
Sleep(1)
Red.off()
Aster.on() # ASTER light
Print("Yellow light is ON")
For I in range(5,0,-1):
Print("Remaining time: ",i)
Sleep(1)
Aster.off()
Green.on #GREEN light
Print("Green light is ON")
For I in range(30,0,-1):
Print("Remaining time: ",i)
Sleep(1)
Green.off()
```