```
import
wiotp.sdk
.device
           #importing library files for connecting with CLOUD,sdk=software developement
            kit
            import requests
           #for API request
            import json
            #converting it to json(key:values)
            myConfig = {
               "identity": {
                    "orgId": "uaortj",
                    "typeId": "Monitor_devicetype",
                                                     #configuration wit CLOUD, finding
            identity
                   "deviceId": "Monitor_deviceid"
                   },
               "auth": {
                   "token": "sngs123monitor" #authenticating with cloud device
               }
            #TRAFFIC AND FATAL SITUATION ALERT MESSAGE DISPLAYING IN WEB UI WHWN THE
            client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
            #initialising device client with above myconfig detail
            client.connect()
            def myCommandCallback(cmd):
                print("Message received from IBM IoT Platform: %s" %cmd.data['command'])
               m=cmd.data['command']
               ALERT=""
            #THIS IF CONDITION BLOCK IS FOR TRAFFIC AND FATAL SITUATION ALERT MESSAGE
           DISPLAYING IN WEB UI WHEN THE MESSAGE WAS RECEIVED FROM THE ROAD SAFETY
            OFFICE
                if (m=="TRAFFIC"):
                   ALERT="TRAFFIC - TAKE DIVERSION"
                   print("*****///TAKE DIVERSION///*****")
               elif(m=="ACCIDENT"):
                   ALERT="ACCIDENT - TAKE DIVERSION"
                   print("*****///TAKE DIVERSION///*****")
               else:
                   ALERT="HAVE A NICE DAY!"
                   print("HAVE A NICE DAY!")
                   mydata1={"SITUATION":ALERT,}
                   client.publishEvent("Monitor_deviceid","json",mydata1)
            while True:
                    print("======="")
```

```
weatherData =
requests.get('https://api.openweathermap.org/data/2.5/weather?q=Chennai,IN&a
ppid=b23b5fad240356d80f95242dcf1d6cad')
        b = weatherData.json()
        temp = b["main"]["temp"]
        humi = b["main"]["humidity"]
        main = b["weather"][0]["main"]
                                            #0th index is taken from the
object
        description = b["weather"][0]["description"]
        visibility = b["visibility"]
        Windspeed = b["wind"]["speed"]
        TemperatureRecommendation =""
        SpeedRecommendation = ""
        RecommendationForVisibilty = ""
#print("Temperature(celcius) :",b["main"]["temp"])
        if(temp > 33):
            TemperatureRecommendation="Temperature is higher than ideal
value"
            print("Temperature is higher than ideal value")
        elif(temp<19):
            TemperatureRecommendation="Temperature is lower than ideal
value"
            print("Temperature is lower than ideal value")
        else:
            TemperatureRecommendation="Temperature is ideal"
            print("Temperature is ideal ")
    #print("Humidity :",b["main"]["humidity"])
    #print("WeatherCondition",(b["weather"][0]["main"]))
        if(main == "Rain"):
            rain = b["rain"]["1h"]
            SpeedRecommendation = "30KM/HR ,ROAD WILL BE SLIPPERY"
#print("Rain:",b["rain"]["1h"])
#print("SPEED RECOMMENDATION : 30KM/HR ,ROAD WILL BE SLIPPERY")
        elif(main == "Drizzle"):
            SpeedRecommendation = "30KM/HR"
#print("SPEED RECOMMENDATION : 30KM/HR")
        elif(main == "Mist"):
            SpeedRecommendation = "30KM/HR and switch on the headlight"
#print("SPEED RECOMMENDATION : 30KM/HR and switch on the Headlight")
        elif(main == "Thunderstorm"):
            SpeedRecommendation = "30KM/HR and stay away in the open place"
#print("SPEED RECOMMENDATION : 30KM/HR and stay away in the open place")
#print("Description of weather :",(b["weather"][0]["description"]))
#print("visibility",(b["visibility"]))
        if(visibility<1000):</pre>
```

```
RecommendationForVisibilty = "SPEED RECOMMENDATION : 30KM/HR and SWITCH ON THE HEAD LIGHT"

else:

RecommendationForVisibilty = "Visibility range is ideal for vechicles"

#print("SPEED RECOMMENDATION : 30KM/HR and SWITCH ON THE HEAD LIGHT")

mydata={"temperature":temp,

"TemperatureRecommendation":TemperatureRecommendation, "humidity":humi, "Weath erCondition":main, "SpeedRecommendation":SpeedRecommendation
,"DescriptionOfWeather":description, "visibility":visibility, "RecommendationForVisibilty":RecommendationForVisibilty, "WindSpeed":Windspeed}

print(mydata)

client.publishEvent("Monitor_deviceid", "json", mydata)

client.commandCallback = myCommandCallback
```