SPRINT 2

Sprint-2	Push the server/software to cloud	Push the code from Sprint1 to cloud so it can be accessed from anywhere	2	MEDIUM	Rahul, Kishore, Jenefar Pious, Senti Meren

Publish.py

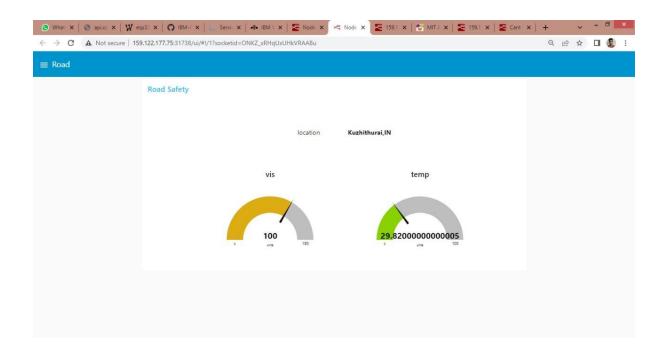
```
import wiotp.sdk.device
import time
myConfig = {
  "identity" : {
    "orgId": "tp0vg4",
    "typeId": "Device1",
    "deviceId" : "Dev1"
  },
  "auth" : {
    "token": "12345678"
  }
}
def myCommandCallback(cmd):
  print("recieved cmd : ",cmd)
def logData2Cloud(location,temperature,visibility):
  client = wiotp.sdk.device.DeviceClient(config=myConfig,logHandlers=None)
  client.connect()
```

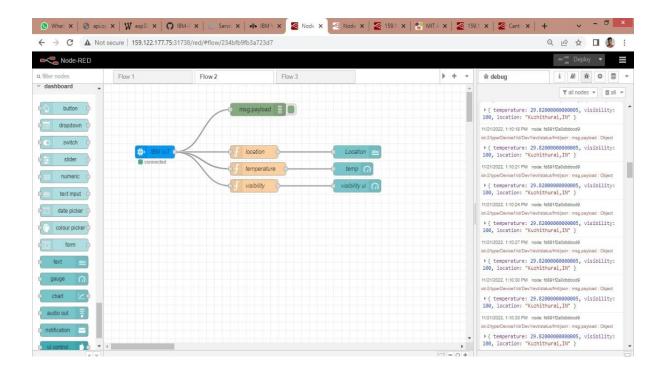
```
client.publishEvent(eventId="status",msgFormat="json",data={
    "temperature": temperature,
    "visibility": visibility,
    "location" : location
  },qos=0,onPublish=None)
  client.commandCallback = myCommandCallback
  client.disconnect()
  time.sleep(3)
main.py
import details
myLocation = "Kuzhithurai,IN"
APIKEY = "6a514bcfa7e0c5591d5ab0009cc44169"
localityInfo = {
  "schools" : {
    "schoolZone": True,
    "activeTime" : ["8:00","17:30"]
    },
  "hospitalsNearby" : False,
  "usualSpeedLimit" : 35 # in km/hr
}
# USER INPUT SECTION ENDS
# -----
# MICRO-CONTROLLER CODE STARTS
while True:
  print(details.processConditions(myLocation,APIKEY,localityInfo))
```

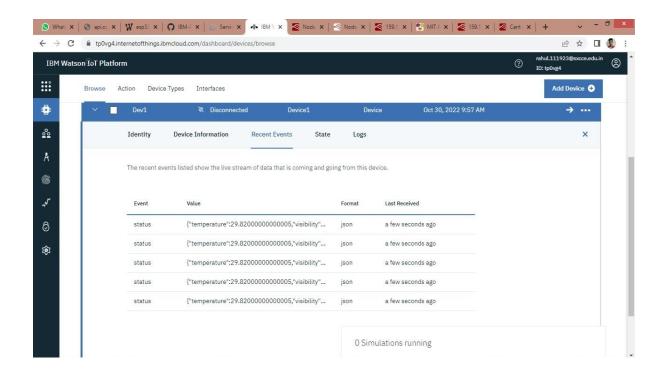
```
details.py
```

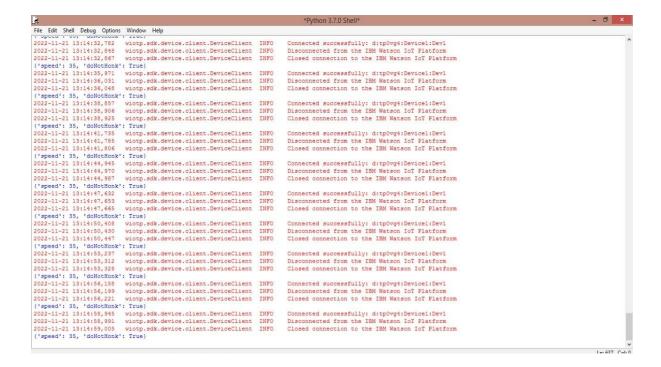
```
import weatherAPI
from datetime import datetime as dt
from publishData import logData2Cloud as log2cloud
def processConditions(myLocation,APIKEY,localityInfo):
  weatherData = weatherAPI.get(myLocation,APIKEY)
log2cloud(myLocation,weatherData["temperature"],weatherData["visibility"])
finalSpeed = localityInfo["usualSpeedLimit"] if "rain" not in weatherData else
localityInfo["usualSpeedLimit"]/2
  finalSpeed = finalSpeed if weatherData["visibility"]>35 else finalSpeed/2
if(localityInfo["hospitalsNearby"]):
    # hospital zone
    doNotHonk = True
  else:
    if(localityInfo["schools"]["schoolZone"]==False):
       doNotHonk = False
    else:
      # school zone
      now = [dt.now().hour,dt.now().minute]
      activeTime = [list(map(int,_.split(":"))) for _ in localityInfo["schools"]["activeTime"]]
      doNotHonk = activeTime[0][0]<=now[0]<=activeTime[1][0] and
activeTime[0][1]<=now[1]<=activeTime[1][1]</pre>
return({
    "speed": finalSpeed,
    "doNotHonk" : doNotHonk
  })
WeatherAPI.py
import requests as reqs
def get(myLocation,APIKEY):
  apiURL = f"https://api.openweathermap.org/data/2.5/weather?q={myLocation}&appid={APIKEY}"
  responseJSON = (reqs.get(apiURL)).json()
```

```
returnObject = {
    "temperature" : responseJSON['main']['temp'] - 273.15,
    "weather" : [responseJSON['weather'][_]['main'].lower() for _ in
range(len(responseJSON['weather']))],
    "visibility" : responseJSON['visibility']/100,
}
if("rain" in responseJSON):
    returnObject["rain"] = [responseJSON["rain"][key] for key in responseJSON["rain"]]
    return(returnObject)
```









```
### File Edit Format Run Options Window Help

Import wictp.adk.device import that the provided in the provided
```

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