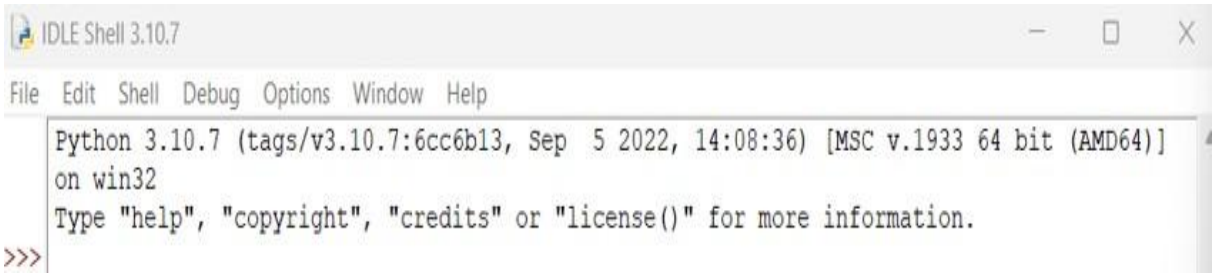
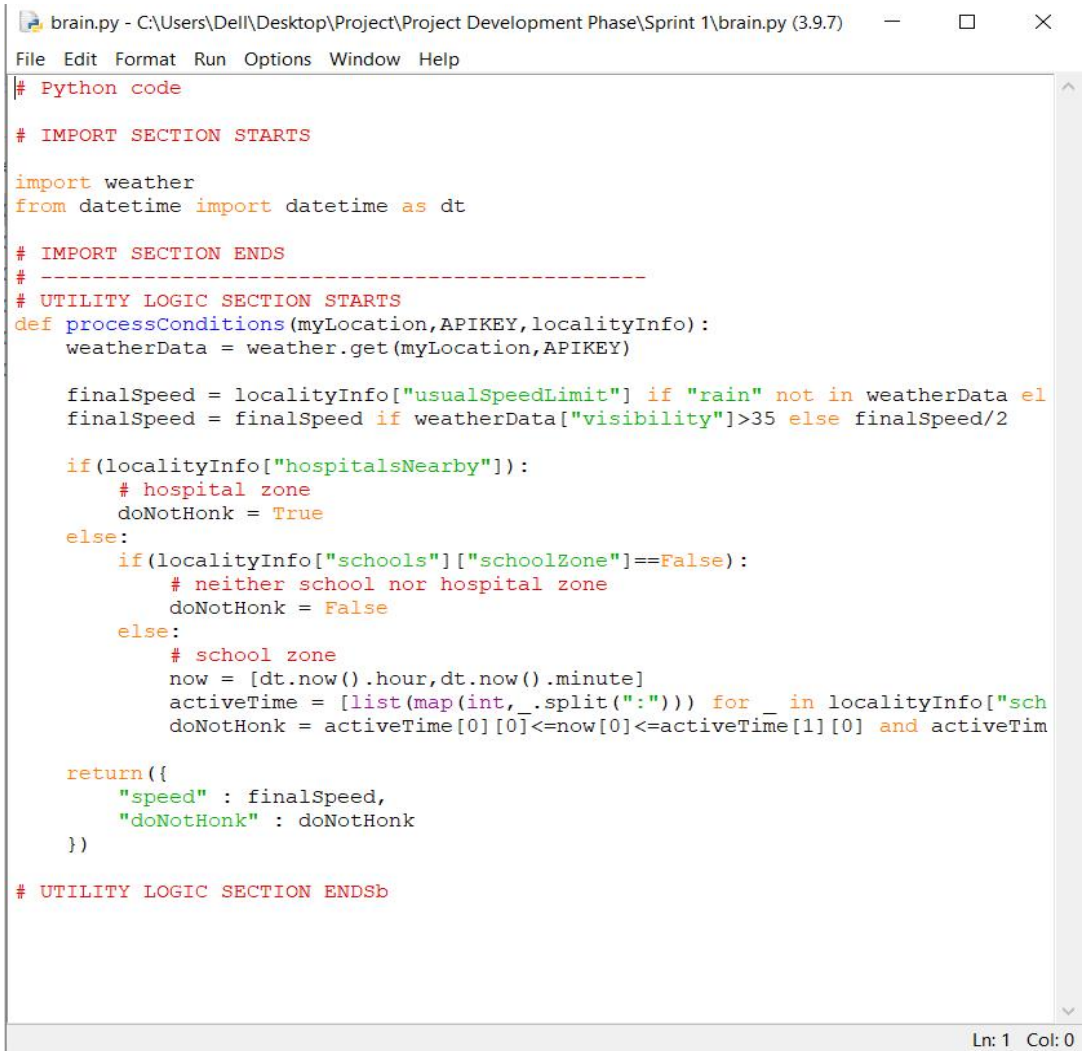
OUTPUT

DATE	04 NOV 2022
Team ID	PNT2022TMID17071
Project Tittle	Signs with smart connectivity for better road safety





weather.py - C:\Users\Dell\Desktop\Project\Project Development Phase\Sprint 1\weather.py ...

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```
# Python code

import requests as reqs

def get(myLocation,APIKEY):
    apiURL = f"https://api.openweathermap.org/data/2.5/weather?q={myLocation}&ap
    responseJSON = (reqs.get(apiURL)).json()
    returnObject = {
        "temperature" : responseJSON['main']['temp'] - 273.15,
        "weather" : [responseJSON['weather'][_]['main'].lower() for _ in range(l
        "visibility" : responseJSON['visibility']/100, # visibility in percentag
    }
    if("rain" in responseJSON):
        returnObject["rain"] = [responseJSON["rain"][key] for key in responseJSO
    return(returnObject)
```

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main.py - C:\Users\Dell\Desktop\Project\Project Development Phase\Sprint 1\main.py (3.9.7)

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```
# Python code

# IMPORT SECTION STARTS

import brain

# IMPORT SECTION ENDS
# -----------------------------------------------
# USER INPUT SECTION STARTS

myLocation = "Chennai,IN"
APIKEY = "9cd610e5fd400c74212074c7ace0d62c"

localityInfo = {
    "schools" : {
        "schoolZone" : True,
        "activeTime" : ["7:00","17:30"] # schools active from 7 AM till 5:30 PM
        },
    "hospitalsNearby" : False,
    "usualSpeedLimit" : 40 # in km/hr
}

# USER INPUT SECTION ENDS
# -----------------------------------------------
# MICRO-CONTROLLER CODE STARTS

print(brain.processConditions(myLocation,APIKEY,localityInfo))

'''
MICRO CONTROLLER CODE WILL BE ADDED IN SPRINT 2 AS PER OUR PLANNED SPRINT SCHEDU
'''

# MICRO-CONTROLLER CODE ENDS
```

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