

ASSIGNMENT 2

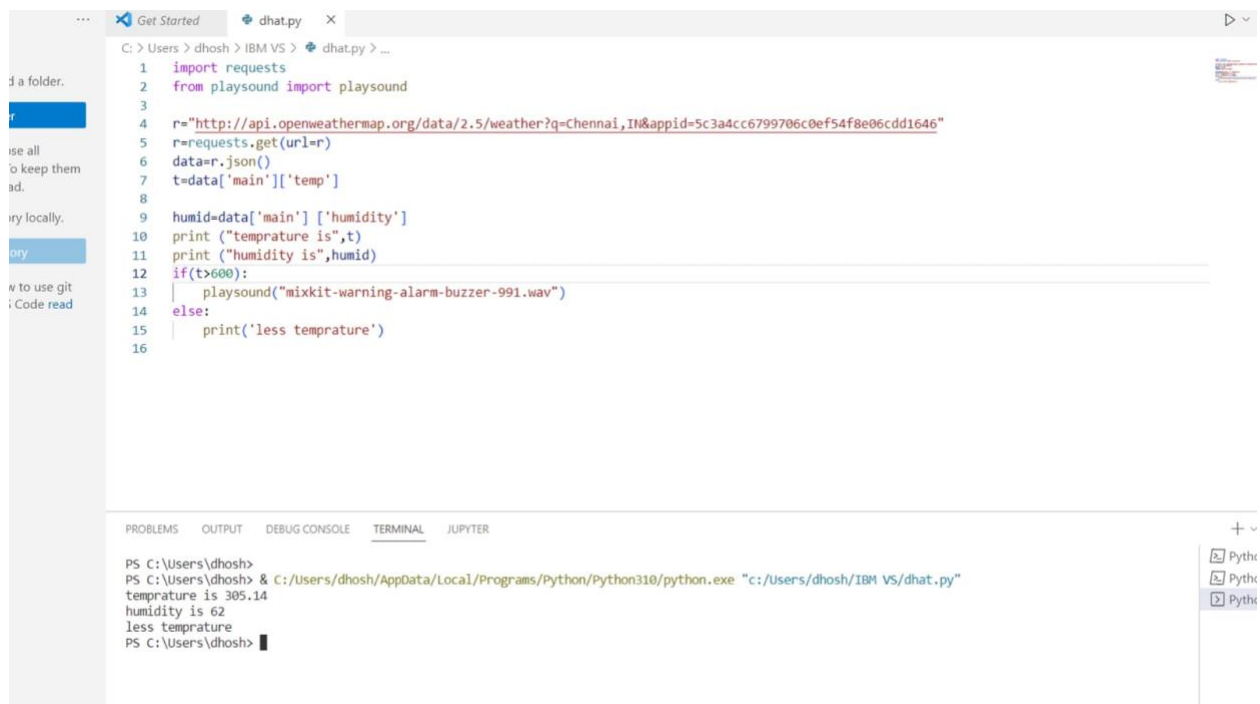
DOMAIN: IOT

TEAM MEMBERS:

1. KEERTHANA KS-513119106041
2. KEERTHANA R-513119106042
3. DHATCHAYINI A-513119106015
4. KANNAN-513119106038

QUESTION:

Build a python code, assume you get temperature and humidity values(generated with random functions to a variable) and write a condition to continuously detect alarm in case of high temperature.



The screenshot shows a Visual Studio Code editor with a file named `dhat.py` open. The code is a Python script that uses the `requests` library to fetch weather data from the OpenWeatherMap API for Chennai. It then checks the temperature and humidity. If the temperature is greater than 600, it plays a warning sound using the `playsound` module. Otherwise, it prints a message indicating the temperature is low.

```
1 import requests
2 from playsound import playsound
3
4 r="http://api.openweathermap.org/data/2.5/weather?q=Chennai,IN&appid=5c3a4cc6799706c0ef54f8e06cdd1646"
5 r=requests.get(url=r)
6 data=r.json()
7 t=data['main']['temp']
8
9 humid=data['main']['humidity']
10 print ("temperature is",t)
11 print ("humidity is",humid)
12 if(t>600):
13     playsound("mixkit-warning-alarm-buzzer-991.wav")
14 else:
15     print('less temprature')
16
```

The terminal output shows the execution of the script, displaying the temperature as 305.14 and humidity as 62, followed by the message "less temprature".

```
PS C:\Users\dhosh>
PS C:\Users\dhosh> & C:\Users\dhosh\AppData\Local\Programs\Python\Python310\python.exe "c:/Users/dhosh/IBM VS/dhat.py"
temperature is 305.14
humidity is 62
less temprature
PS C:\Users\dhosh>
```

CODING:

```
import requests
```

```
from playsound import playsound
```

```
r="https://api.openweathermap.org/data/2.5/weather?lat=13.0646016&lon=80.2455552&appid=c5f2a2b446be8b121a2c21a7996af892"
```

```
r=requests.get(url=r)
```

```
data=r.json()
```

```
t=data['main']['temp']
```

```
humid=data['main'] ['humidity']
```

```
print ("temprature is",t)
```

```
print ("humidity is",humid)
```

```
if(t>600):
```

```
    playsound("mixkit-warning-alarm-buzzer-991.wav")
```

```
else:
```

```
    print('less temprature')
```