

ASSIGNMENT 2

DOMAIN: IOT

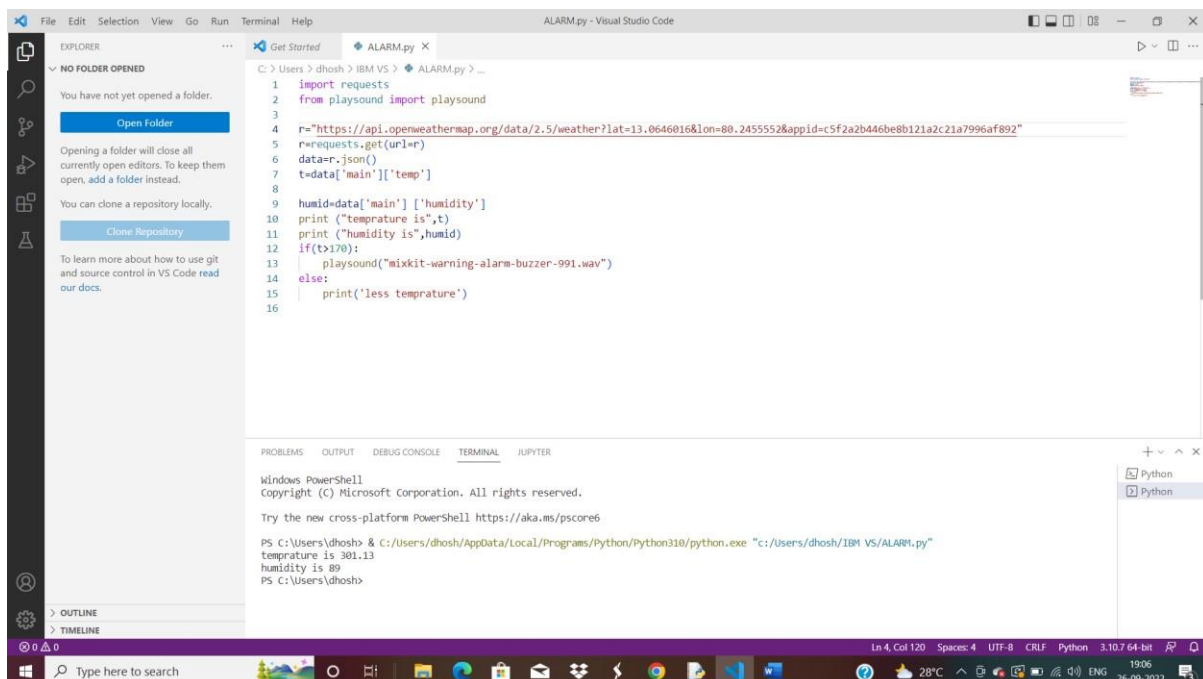
TEAM ID: PNT2022TMID29677

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QUESTION:

Build a python code, assume u 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 displays the Visual Studio Code interface. The Explorer pane on the left shows a project named 'ALARM.py'. The main editor area contains the following Python code:

```
1 import requests
2 from playsound import playsound
3
4 r="https://api.openweathermap.org/data/2.5/weather?lat=13.0646016&lon=80.2455552&appid=c5f2a2b446be8b121a2c21a7996af892"
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>170):
13     playsound("mixkit-warning-alarm-buzzer-991.wav")
14 else:
15     print('less temperature')
16
```

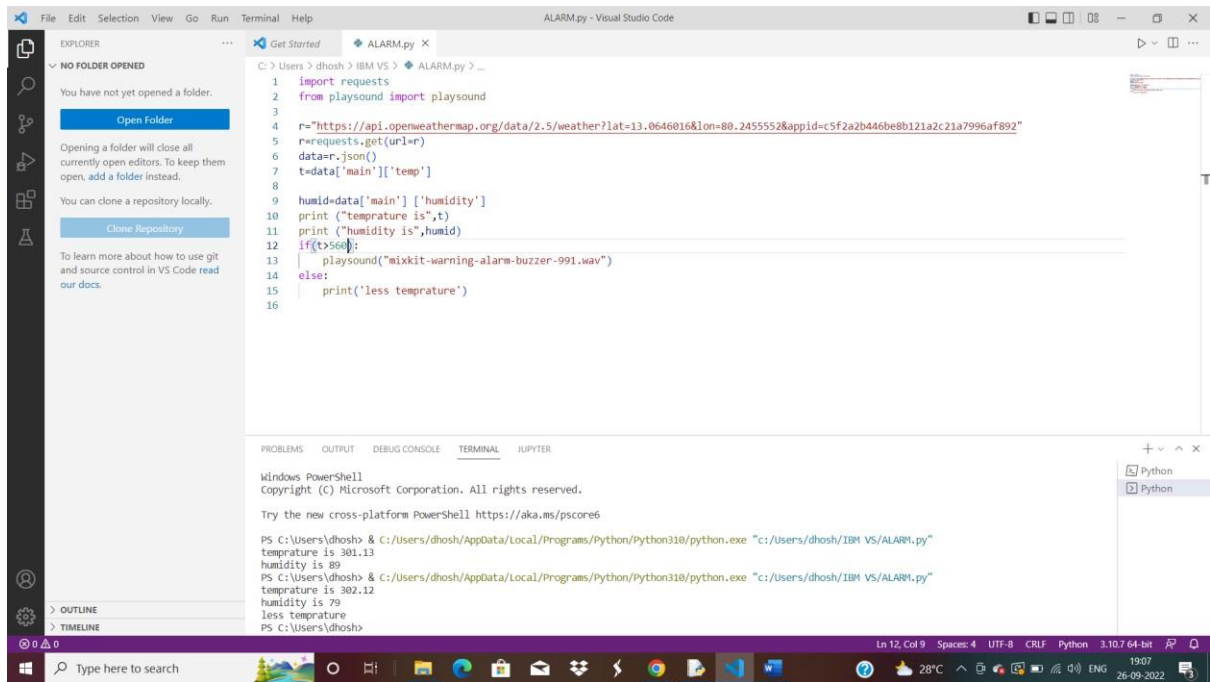
The bottom panel shows the TERMINAL output:

```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\dhosh> & C:\Users\dhosh\AppData\Local\Programs\Python\Python310\python.exe "c:\Users\dhosh\IBM VS\ALARM.py"
temperature is 301.13
humidity is 89
PS C:\Users\dhosh>
```

The Windows taskbar at the bottom shows the system clock as 19:06 on 20-09-2022, with a temperature of 28°C.



CODING:

```
import requests
from playsound import playsound
```

```
r="https://api.openweathermap.org/data/2.5/weather?lat=13.0646016&lon=80.245552&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>170):
    playsound("mixkit-warning-alarm-buzzer-991.wav")
else:
    print('less temprature')
```