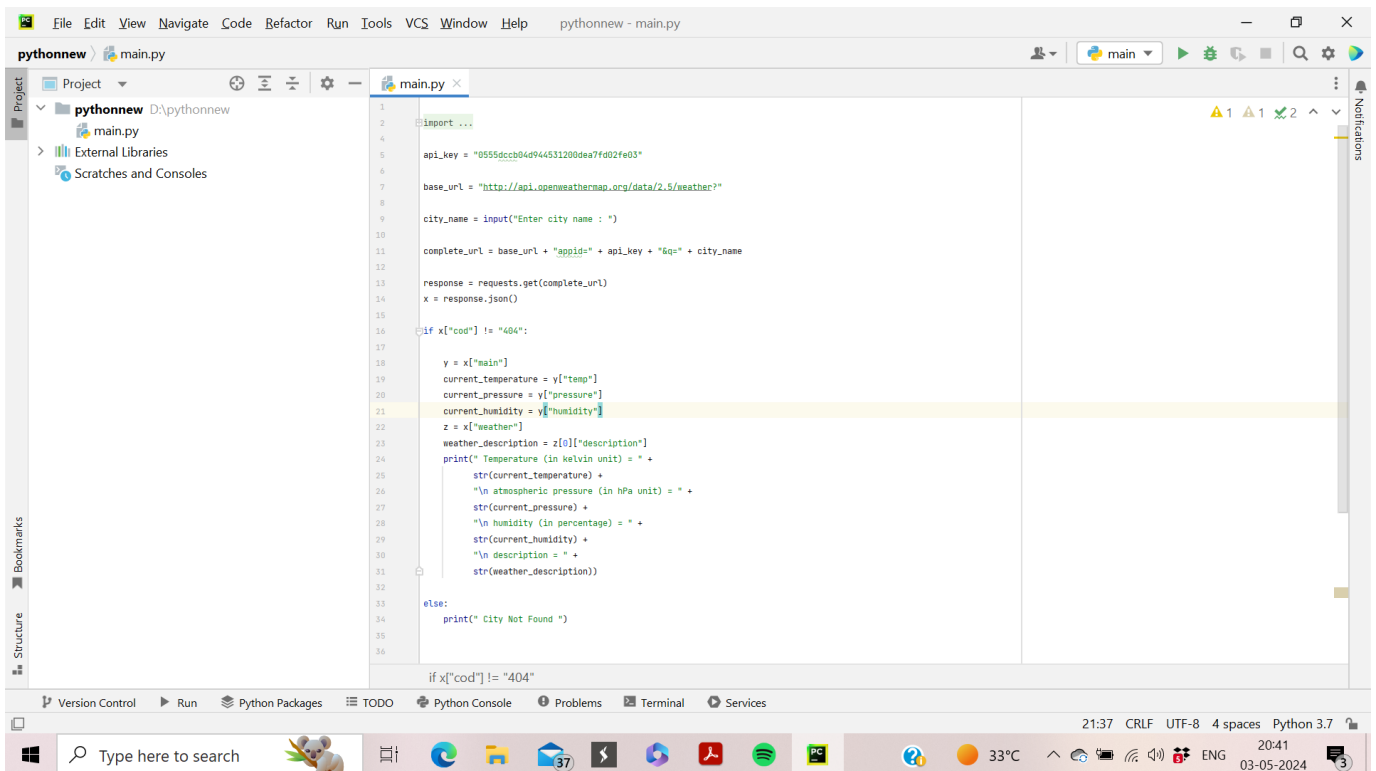
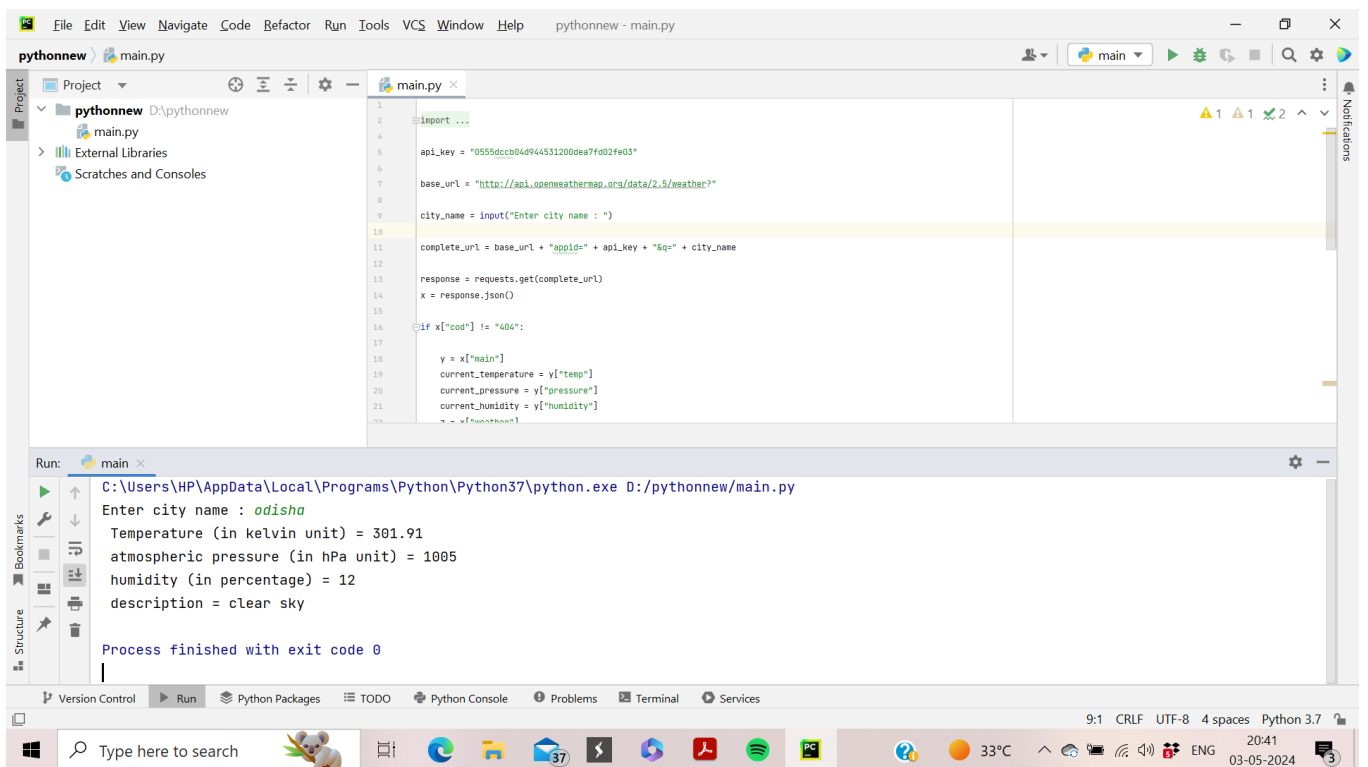


## Task1- weather REST API



The screenshot shows a code editor with a Python script named `main.py`. The script uses the `requests` library to fetch weather data from the OpenWeatherMap API. It prompts the user for a city name, constructs a URL with an API key and city name, and then prints the temperature, pressure, humidity, and weather description in Kelvin units. Error handling is present for a 404 status code.

```
1 import ...
2
3
4
5 api_key = "0555dccc04d944531200dea7fd02fe03"
6
7 base_url = "http://api.openweathermap.org/data/2.5/weather?"
8
9 city_name = input("Enter city name : ")
10
11 complete_url = base_url + "appid=" + api_key + "&q=" + city_name
12
13 response = requests.get(complete_url)
14 x = response.json()
15
16 if x["cod"] != "404":
17
18     y = x["main"]
19     current_temperature = y["temp"]
20     current_pressure = y["pressure"]
21     current_humidity = y["humidity"]
22     z = x["weather"]
23     weather_description = z[0]["description"]
24     print(" Temperature (in kelvin unit) = " +
25           str(current_temperature) +
26           "\n atmospheric pressure (in hPa unit) = " +
27           str(current_pressure) +
28           "\n humidity (in percentage) = " +
29           str(current_humidity) +
30           "\n description = " +
31           str(weather_description))
32
33 else:
34     print(" City Not Found ")
35
36
37 if x["cod"] != "404"
```



The screenshot shows the same IDE with the `main.py` script. The `Run` panel at the bottom displays the output of the program. The user entered `odisha` as the city name. The program successfully retrieved weather data and printed it in Kelvin units. The process finished with exit code 0.

```
Run: main
C:\Users\HP\AppData\Local\Programs\Python\Python37\python.exe D:/pythonnew/main.py
Enter city name : odisha
Temperature (in kelvin unit) = 301.91
atmospheric pressure (in hPa unit) = 1005
humidity (in percentage) = 12
description = clear sky
Process finished with exit code 0
```