

# QA Engineer Intern\_Assignment Round

Assignment By:

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## Assignment

<https://samples.openweathermap.org/data/2.5/forecast/hourly?q=London,us&appid=b6907d289e10d714a6e88b30761fae22>

The above API is the REST GET API

Which gives you the response in JSON format and hourly weather forecast of London  
Location

I want you to write a program to get the option from the user and print the result based on the above API.

1. Get weather
2. Get Wind Speed
3. Get Pressure
0. Exit

If the user **press 1**, Prompt the user for the date then print the **temp of the input date**.

If the user **press 2**, Prompt the user for the date then print the **wind.speed of the input date**.

If the user **press 3**, Prompt the user for the date then print the **pressure of the input date**.

If the user **press 0**, **Terminate** the program.

**The program should not terminate until the user press 0.**

The program should be **modular**.

You can use only **Java or Python** programming language and any framework.

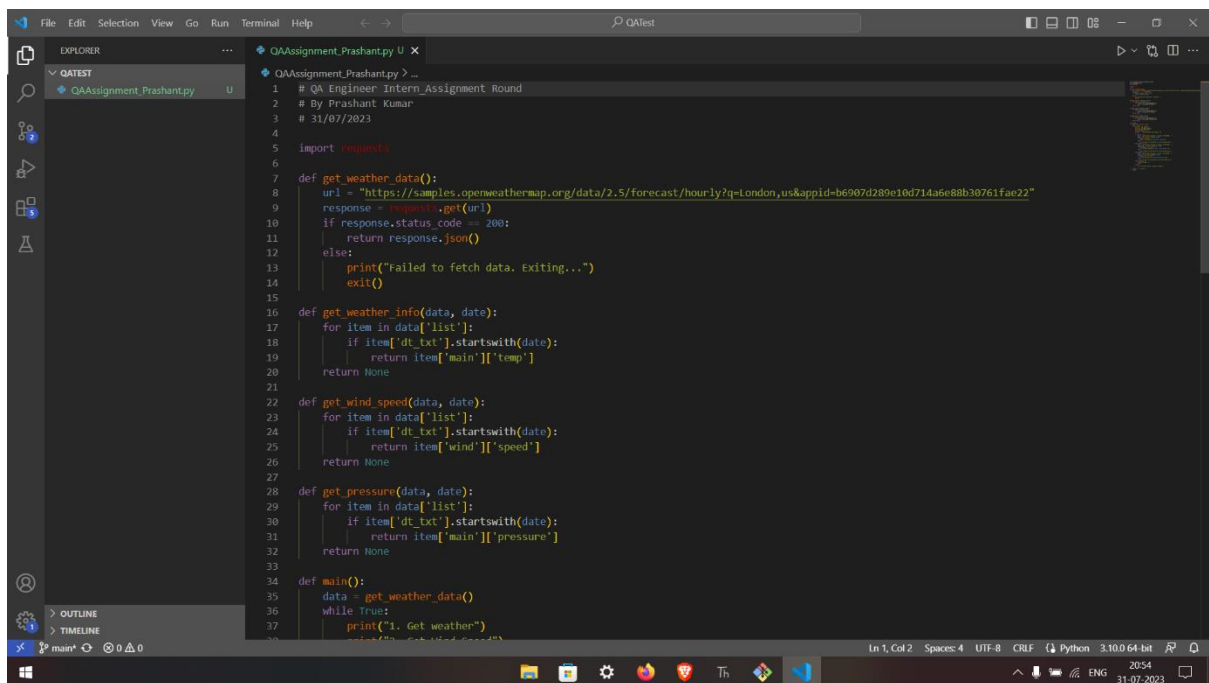
Once you completed the automation, check-in the code in GitHub, and attach the repository link below for review as well as share a screen shot of your output.

Solution:

The code can be found in github link: [Click here](#)

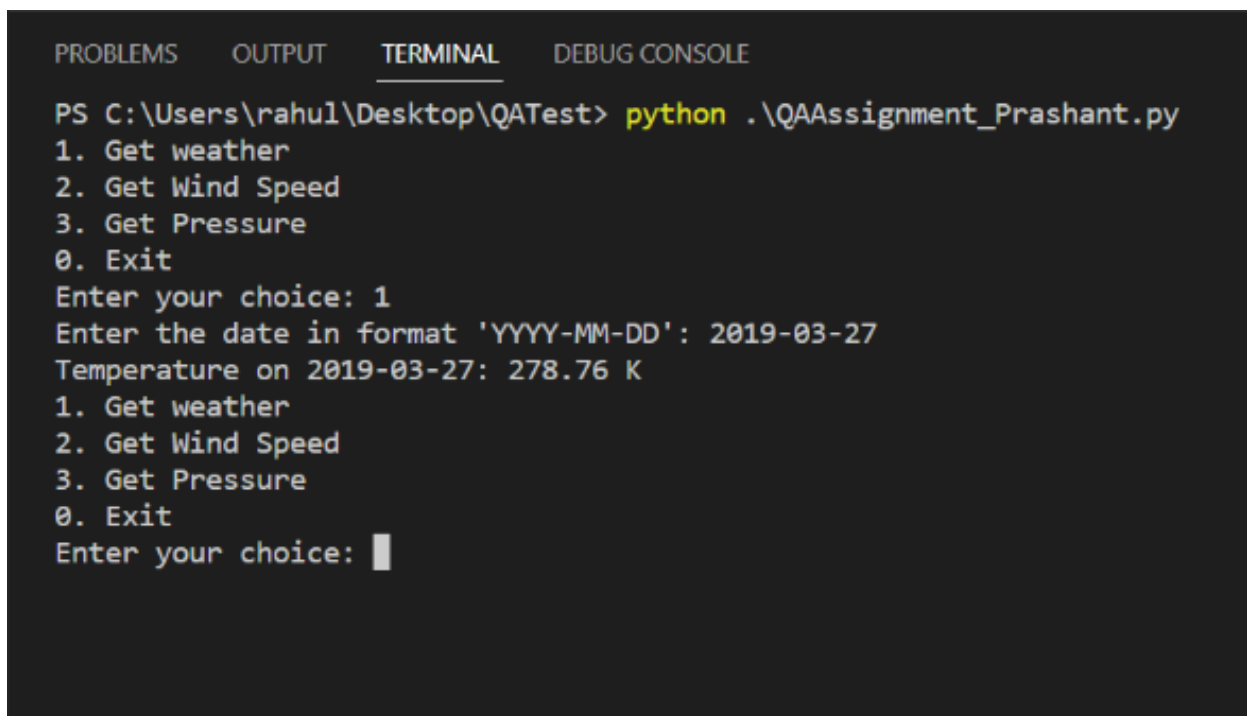
Screenshots:

Code →



```
1 # QA Engineer Intern Assignment Round
2 # By Prashant Kumar
3 # 31/07/2023
4
5 import requests
6
7 def get_weather_data():
8     url = "https://samples.openweathermap.org/data/2.5/forecast/hourly?q=London,us&appid=b6907d289e10d714a6e88b30761fac22"
9     response = requests.get(url)
10    if response.status_code == 200:
11        return response.json()
12    else:
13        print("Failed to fetch data. Exiting...")
14        exit()
15
16 def get_weather_info(data, date):
17     for item in data['list']:
18         if item['dt_txt'].startswith(date):
19             return item['main']['temp']
20     return None
21
22 def get_wind_speed(data, date):
23     for item in data['list']:
24         if item['dt_txt'].startswith(date):
25             return item['wind']['speed']
26     return None
27
28 def get_pressure(data, date):
29     for item in data['list']:
30         if item['dt_txt'].startswith(date):
31             return item['main']['pressure']
32     return None
33
34 def main():
35     data = get_weather_data()
36     while True:
37         print("1. Get weather")
38         print("2. Get Wind Speed")
39         print("3. Get Pressure")
40         print("0. Exit")
41         choice = input("Enter your choice: ")
42         if choice == "1":
43             date = input("Enter the date in format 'YYYY-MM-DD': ")
44             temp = get_weather_info(data, date)
45             print(f"Temperature on {date}: {temp} K")
46         elif choice == "2":
47             date = input("Enter the date in format 'YYYY-MM-DD': ")
48             wind_speed = get_wind_speed(data, date)
49             print(f"Wind Speed on {date}: {wind_speed} m/s")
50         elif choice == "3":
51             date = input("Enter the date in format 'YYYY-MM-DD': ")
52             pressure = get_pressure(data, date)
53             print(f"Pressure on {date}: {pressure} hPa")
54         elif choice == "0":
55             break
```

Get Weather →



```
PROBLEMS  OUTPUT  TERMINAL  DEBUG CONSOLE

PS C:\Users\rahul\Desktop\QATest> python .\QAAssignment_Prashant.py
1. Get weather
2. Get Wind Speed
3. Get Pressure
0. Exit
Enter your choice: 1
Enter the date in format 'YYYY-MM-DD': 2019-03-27
Temperature on 2019-03-27: 278.76 K
1. Get weather
2. Get Wind Speed
3. Get Pressure
0. Exit
Enter your choice: 2
```

Get Wind Speed →

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

```
PS C:\Users\rahul\Desktop\QATest> python .\QAAssignment_Prashant.py
1. Get weather
2. Get Wind Speed
3. Get Pressure
0. Exit
Enter your choice: 1
Enter the date in format 'YYYY-MM-DD': 2019-03-27
Temperature on 2019-03-27: 278.76 K
1. Get weather
2. Get Wind Speed
3. Get Pressure
0. Exit
Enter your choice: 2
Enter the date in format 'YYYY-MM-DD': 2019-03-28
Wind Speed on 2019-03-28: 1.13 m/s
1. Get weather
2. Get Wind Speed
3. Get Pressure
0. Exit
Enter your choice: █
```

Get Pressure →

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

```
2. Get Wind Speed
3. Get Pressure
0. Exit
Enter your choice: 1
Enter the date in format 'YYYY-MM-DD': 2019-03-27
Temperature on 2019-03-27: 278.76 K
1. Get weather
2. Get Wind Speed
3. Get Pressure
0. Exit
Enter your choice: 2
Enter the date in format 'YYYY-MM-DD': 2019-03-28
Wind Speed on 2019-03-28: 1.13 m/s
1. Get weather
2. Get Wind Speed
3. Get Pressure
0. Exit
Enter your choice: 3
Enter the date in format 'YYYY-MM-DD': 2019-03-27
Pressure on 2019-03-27: 1031.934 hPa
1. Get weather
2. Get Wind Speed
3. Get Pressure
0. Exit
Enter your choice: █
```

Exit →

PROBLEMS

OUTPUT

TERMINAL

DEBUG CONSOLE

0. Exit

Enter your choice: 1

Enter the date in format 'YYYY-MM-DD': 2019-03-27

Temperature on 2019-03-27: 278.76 K

1. Get weather

2. Get Wind Speed

3. Get Pressure

0. Exit

Enter your choice: 2

Enter the date in format 'YYYY-MM-DD': 2019-03-28

Wind Speed on 2019-03-28: 1.13 m/s

1. Get weather

2. Get Wind Speed

3. Get Pressure

0. Exit

Enter your choice: 3

Enter the date in format 'YYYY-MM-DD': 2019-03-27

Pressure on 2019-03-27: 1031.934 hPa

1. Get weather

2. Get Wind Speed

3. Get Pressure

0. Exit

Enter your choice: 0

Exiting...

PS C:\Users\rahul\Desktop\QATest> █

Pushing To Github Repo →

```
rahul@PRASHANT MINGW64 ~/Desktop/QATest (main)
$ git add .
```

```
rahul@PRASHANT MINGW64 ~/Desktop/QATest (main)
$ git commit -m "QA Assignment"
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)
```

```
nothing to commit, working tree clean
```

```
rahul@PRASHANT MINGW64 ~/Desktop/QATest (main)
$ git push -u origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 999 bytes | 142.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/PrashantK131/QATest.git
   0307400..feb6619  main -> main
branch 'main' set up to track 'origin/main'.
```

```
rahul@PRASHANT MINGW64 ~/Desktop/QATest (main)
$ |
```