Name: Chandler Ford  
Class: CSS 490 A  
Assignment: Program 2 (REST)

**Included in zip file**

1. WeatherAPI.exe: The executable for the application.
2. Program.cs: The C# file containing code.
3. ReadMe: Explanation of program and how to run.
4. Newtonsoft.Json.dll: Allows JSON deserializer to work

**Application**This program takes in a city name and a country abbreviation and returns information about the weather with the help of a RESTful API from OpenWeatherMap.

**Design**The program takes in a city name and country abbreviation as strings from the user. If the user enters exit or nothing into either of these categories, the program will exit.

These strings join with other building block strings to create the URL. This URL is used to get the webpage. If the URL is invalid or returns an error in some way the user will be notified and the process will be restarted. If the URL is valid the webpage will be downloaded as a string.

The JSON is then deserailized using the JSON converter provided by the using Newtonsoft.Json statement. Raw JSON data from OpenWeatherMap has been specially pasted into the file as classes, allowing for deserialized objects to be created and used for printing.

The program prints information regarding the following categories before restarting:

* Location
* Temperature (including min and max)
* Current condition
* Wind
* Pressure
* Humidity

**Usage**To run the program, you must have the Newtonsoft.Json.dll file in the same folder as the executable. Once you open the executable you will be prompted to enter a valid city name (such as Seattle) and press enter. You will then be prompted to enter the initials of a country (the United States would be US, New Zealand would be NZ, etc.). The weather information will then be printed. The program will keep looping until you either enter nothing or exit in one of the input categories.

Note: If you need to have the Newtonsoft.Json package installed and don’t have it installed, just go to the Solution Explorer in Visual Studio (CTRL + ALT + L), right click the “References” folder, select “Manage NuGet Packages”, click “Online”, search json.net, and then click install. [Source](https://stackoverflow.com/questions/4444903/how-to-install-json-net-using-nuget)