Weather Forecasting

Assignment: Get the weather information of cities from different websites and retrieve the output in a file format.

Team Members:

1. Satish (Lead)
2. Meghana
3. Anitha
4. Giri Vardhan (Absent)

Work Division:

Getting weather data using API Key – Satish

Generating output in a file format – Anitha

Code integration and structuring - Meghana

Output Format: WORD file

Output Should be: Date :

Time:

🡪Entering the city name:

🡪Search and save the weather data

🡪Ask whether user want to continue or not

🡪If user want to continue iterate the loop otherwise

🡪Ask user to enter file name

🡪Displaying the output

Software tools used:

1. Beautiful soup
2. docx
3. requests
4. os
5. datetime

Algorithm for Code:

1. Here we were used headers because headers contain protocol-specific information that is retrieved from the website
2. After that, we used get() function and pass the google search in it along with the name of the city to retrieve the weather data
3. Then we had used beautiful soup and parse the HTML data that is required from the website
4. Then we had used select() function to retrieve information like temperature, weather, precipitation, time and wind speed etc.
5. We have printed the data that is stored in variables and we have called those variables into data\_file using dictionary.
6. We printed the stored data on the word file and we are iterating the loop.

Getting Weather from:

* Openweather.com
* goweather
* Weatherbit
* Wttr
* Weather (providing google search)

References:

* <https://python-docx.readthedocs.io/en/latest/>
* [How to get Weather forecast in python? - YouTube](https://www.youtube.com/watch?v=gOWm5rF_qdc)
* <https://www.geeksforgeeks.org/working-with-text-in-python-docx-module/>
* <https://jovian.ai/asmitajha174/mllog1>
* <https://www.thepythoncode.com/article/extract-weather-data-python>
* <https://stackoverflow.com/questions/24230324/python-cant-catch-an-indexerror>
* <https://stackoverflow.com/questions/30893843/using-python-dict-imported-from-file-in-another-python-file>
* <https://github.com/chubin/wttr.in>
* <https://openweathermap.org/api>
* <https://weather.com/en-IN/?Goto=Redirected>