This pure programming project in Python language consists of obtaining climatic data from a city in the world or from a certain latitude and longitude coordinate. The data for the next 12 hours is obtained in four sections of forecasts for the next three hours.

For this purpose the user must:

* Get your API key (called apikey in the program) from <https://openweatherapp.org>
* Wait a couple of hours for the apikey to be activated
* Create a weather object using the previously generated API key and the chosen city, or the chosen latitude and longitude coordinate

Examples of creating a weather object:

* weather1 = Weather(apikey= "2993203920332039", city="Madrid")
* weather2 = Weather(apikey="93934993943944", lat=41.1, lon=-4.1)

In this case, there is an API key (called apikey in the program), but remember that each person must generate their key.

To get complete weather data for the next 12 hours:

>>> weather1.next\_12hs()

To obtain simplified data for the next 12 hours:

>>> weather1.next\_12hs\_simplified()

If it were desirable to generate an Excel file with the data for the next 12 hours divided into four three-hour parts, It would be used, for example:

df = time.next\_12hs\_simplified()

df.to\_excel('./Excel\_Sample\_out.xlsx', sheet\_name='Sheet1')