# Weather Forecast Application in Python

## Objective

Create a Python program that fetches real-time weather data from an API and displays the current weather conditions for a given city.

## Requirements

1. Use the requests library to fetch data from the OpenWeatherMap API (or any other free weather API).

2. Allow the user to input a city name.

3. Fetch and display the following information:

- Temperature (Celsius and Fahrenheit)

- Weather Description (e.g., Clear, Rainy, Cloudy, etc.)

- Humidity

- Wind Speed

4. Handle errors such as invalid city names or API request failures.

5. Format the output in a user-friendly way.

## Instructions

1. Sign up for an API key on [OpenWeatherMap](https://openweathermap.org/api).

2. Install required libraries.

3. Write a Python script that:

- Takes user input for the city name.

- Fetches data from the API.

- Parses and displays the relevant weather information.

4. Handle exceptions and edge cases (e.g., wrong city name, network issues).

## Submission Guidelines

- Submit the Python script file (weather\_forecast.py).

- Provide a short report explaining the implementation.

- Include screenshots of the working program with different city names.

## Evaluation Criteria

- Correct use of API and data fetching.

- Proper error handling.

- Clean and readable code.

- User-friendly output formatting.