Isn’t it wonderful that we can predict how will be the weather acts like tomorrow, In so many ways that information of prediction will be useful.

**Weather forecasting** is the application of science and technology to predict the conditions of the atmosphere for a given location and time.

People have attempted to predict the weather informally for millenia and formally since the 19th century.

Weather forecasts are made by collecting quantitative data about the current state of the atmosphere, land, and ocean and using meteorology to project how the atmosphere will change at a given place.

So we created a project about weather forecasting using api with graphics user interface (GUI).

The idea of this article is to provide a simple GUI application to users to get the current temperature of any city they wish to see.

The system also provides a simple user interface for simplification of application.

It also provides an amazing UX for its users.

The features of this application will be that this will be a real-time weather forecast app that returns the current temperature, maximum and minimum temperature, humidity, latitude, and longitude coordinates of the searched city, current date, and time.

It can also change its theme according to the time of day.

By using the modules we can create automatic date and time so that we can get the time and date in the output.

By using Openweathermap api we can get the temperature at that given location.   
By using some functions we can create a search bar to enter the city name as an input by user.

By using this api we can predict the humidity , maximum and minimum temperature of the given location.