Description:

The main goal of the project is to create an application designed to take two email addresses, a password, and a CSV file as input. It will generate a weather report using the data from the file and send it from one email address to the other. The weather report file contains information about the most appropriate day for the space shuttle launch.

Goals:

The aim of the task is to realize an accessible and user-friendly interface for end users. This interface will allow them to enter their data (emails, password, file) and manually add information about the weather. The information would be processed and summarized into a weather report, which will then be sent to the recipient's email address. To ensure a well-structured project, the four principles of object-oriented programming (OOP) should be employed, and all types of errors should be handled appropriately.

Realization: 7 classes

1. User - A class responsible for accepting and processing user data (emails, password).

2. CloudType - An enum class listing all possible types of clouds.

3. Cloud - A class related to the CloudType class, responsible for correct processing and usage of data for CloudType objects.

4. DayParameters - A class responsible for creating a structure with parameters from the file as private data members.

5. Commands - A class responsible for reading from the specified file, processing the information, and summarizing it in another CSV file named "WeatherReport.csv".

6. SendEmail - A class responsible for sending an email with the collected information (the weather report file) from one email address to the other.

7. StartApp - A class responsible for collecting all the information and sending the email with the weather report (starting the application).

8. HelpfulFunctions - A class responsible for word verification.

Summary:

The project implementation follows the principles of object-oriented programming (OOP). Additional functionality has been added to allow users to manually enter weather data. The classes are responsible for the proper execution of the program, and if any incorrect information is encountered (in the file or manually added), the user will be notified with an appropriate error message.