Rainfall Statistics

**Details**

Using Visual Basic programming language and concepts, create an application in Visual Studio named**Rainfall Statistics**that meet the following requirements:

**Instructions**

This application uses a text file of annual rainfall totals in Seattle for the years 2004 to 2021 to find the average rainfall and the rainiest year during the period. The user can also select a year within the range to display the total rainfall in inches that year.

**Program Procedures:**

A Windows application analyzes rainfall totals for the years 2004–2021. The user can select a year from the range and view the total rainfall in inches that year. The average rainfall for the range of years and the rainiest year are also displayed.

**Algorithms, Processing, and Conditions:**

1. The application first opens the rainfall text information. The file is named[rain.txt](https://rsccd.instructure.com/courses/108460/files/19623602?wrap=1)[Download rain.txt](https://rsccd.instructure.com/courses/108460/files/19623602/download?download_frd=1)and it lists the total rainfall amounts in Seattle during the years 2004–2021.
2. The user can select a year in the range of data to view the total rainfall for that year.
3. When the user taps or clicks the Display Statistics button, the average rainfall for the years within the range and the rainiest year are displayed.
4. When the user clicks the exit button, the form should close.
5. When the user clicks the clear button, the label objects should be cleared and/or made not visible.

**Notes and Restrictions:**

1. Use procedures to compute the average rainfall and the year with the most rainfall.
2. Obtain an image from the internet to use.
3. From a list box, the user selects a year from the range of 2004–2021.
4. The program displays the inches of rainfall for that year.
5. The user taps or clicks the Display Statistics button to view the average rainfall for the years 2004–2021 and the rainiest year in the range.
6. You do not have to change the form title area to white. Use the defaulted color.
7. Include exit and clear buttons.