Code Documentation for FunctionCSV Project

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Overview

The purpose of the FunctionCSV project was to create classes and methods that calculate a function and save the x and y values to a csv file. This project has three classes.

How It Works

Exporter

The Factorial class is responsible for saving the x and y values of the calculated function. It has one method:

- createFile
 - Parameters: ArrayList<Integer> xValues The ArrayList of x values that were used with the function to create the y values, ArrayList<Double> yValues The ArrayList of y values that were calculated using the function
 - Functionality Saves the x and y values to a .csv file
 - o Returns: Nothing, but prints statements

Function

The Function class contains methods that calculates the answer to a mathematical function and saves the x and y values. This class has two methods:

- logFunction
 - Parameters: int startingValue The starting x value (inclusive), int finishingValue – The last x value (inclusive)
 - Functionality Calculates the value of ln(x) and saves the x and y values in ArrayLists
 - o Returns: Nothing
- saveFunction
 - Parameters: ArrayList<Integer> xValues The ArrayList of x values from the function, ArrayList<Integer> yValues – The ArrayList of y values calculated using the function and the x values
 - Functionality Creates an Exporter object and saves the x and y values from the function into a .csv file

o Returns: Nothing

FunctionCSVTester

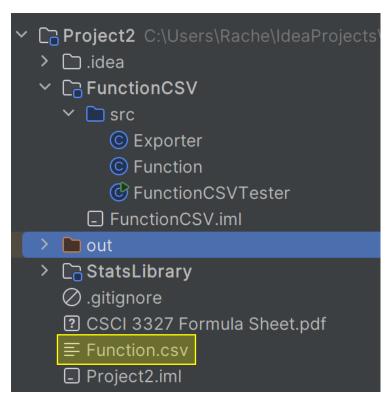
The FunctionCSVTester class contains the main method and is used to test the methods from the Exporter and Function classes.

Output

The program creates a .csv file called "Function.csv."

Screenshots

Screenshot of the file in the Project2 directory



Some of the contents of the file

```
1,0.0000,
17,2.8332,
20,2.9957,
23,3.1355,
```

Excel Chart of the .csv file

