

Youdis Chapter 11 Reflection on Code

Credit Name: Chapter 11

Assignment Name: StudentSemesterAverage GUI

Understanding the Problem

How did you approach understanding the challenge?

After checking out the pictures provided in d2l about how the project should look I went and made the gui and started understanding it as I rebuilt the ui. I also realized it was similar to Stats2GUI so I reviewed that code as well.

Were there any parts of the problem you found confusing at first? If so, how did you resolve that confusion?

The separation of saving to file and displaying to file was confusing as I initially wanted to just use the string builder to output the text into the display area after the file was saved. However I realized that wouldn't work after multiple students are added to the file so instead I read the file and copied its text into the display field.

Planning the Solution

Did you create a plan or break the problem into smaller steps before coding?

How did you decide on the tools, data structures, or algorithms to use?

I planned it based on the three buttons I have. I made sure to start with save to file then display file contents then clear file. This order allowed me to focus on the code at hand and not worry about mixing things up leading to a procedural workflow.

Implementation

Did you write the code in small pieces or attempt the entire solution at once?

How did you test your solution along the way to make sure it was working?

I wrote the code in small pieces and tested them along the way. I broke the project into smaller chunks by separating them by button function. Then within each button I broke it down into conditional statements then working with the file and exception handling.

Overcoming Challenges

What part of the problem was the most difficult for you?

How did you handle moments when you felt stuck or unsure of what to do next?

I was stuck on how to clear the file so I searched up how to clear it and found that FileOutputStream overwrites files meaning it basically wipes them.

Learning

Was there anything you learned that you think will help you with future challenges?

The JOptionPane pop up gui menus when errors or notification had to be displayed has something I learned to use in this project and definitely think I will use it again.