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CS 172

Final Project Proposal

A problem to address would be that of a lack of tutoring program that can give input into how the studying session went and can give insightful and meaningful analytics. For my project I would like to accomplish making an interactive tutoring program that can output results from the studying session. The program will include a variety of different subjects from which the user can choose from at any point. At the end I would like to have the program create a report of the results from what the different subjects and possibly include a property that analyzes the progress from previous studying sessions. The program will most likely consist of math problems and can vary by addition/subtraction etc. I could also add in other kinds of problems like algebra or calculus for example.

Some challenges that I will encounter in creating my program would be coding in the method of storing data about the study session, and hopefully storing data that is more substantial than just how many correct or incorrect. Some ideas would be how close they are or intuitively figuring out where the user started going wrong in their thinking process. In analyzing the inputs from the user I would like to make the tutoring program actually help tutor too, adding in a hint option or helping in giving steps towards finding the solution. Noting how the user performs will give insight into what kind of feedback would be helpful at the end.