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BCS 215

Final Project Writeup

Capstone Presentation Individual Writeup

I worked on several functions, first one being the assignments_due function. This function searches for assignments that are due based on today's date. First it gets today's date and displays it. It then starts a while loop that reads through the assignments file and compares the date in each line to the current date. Once an assignment with a matching date is found, it then saves the time that the assignment is due, the class the assignment is from, and the difficulty of the assignment into separate variables and outputs then like so: "An assignment in: $CLASS, due at: $TIME, with a difficulty of: $DIFFICULTY". The function also contains a counter to keep track of the amount of assignments that are due today and outputs the total once all lines in the file have been read.

Another function I wrote was the edit_assignments function. It starts by asking the user to enter an assignment ID and then searches for that assignment in the assignments file. If it doesn't find the assignment, it then outputs so and asks the user if they want to enter another ID or quit to the menu. If it does find an assignment, it then saves the following fields into separate variables: the date the assignment is due, the time the assignment is due, the class the assignment is from, the difficulty of the assignment, and the status of the assignment. It then asks the user which field of the assignment they want to change. After selecting a field, the user will be prompted for input based on what field they picked. The data currently in the field will then be replaced with the user's input. Once the user is done making changes to that assignment, the corresponding line in the file will be changed to match. The user will then be asked if they want to enter another ID or quit to the menu.

I also implemented the typewriter function. This function was found on stack overflow. There were plans to make changes such add a default speed or make the typewriter function toggleable but I didn't due to the previous functions taking priority. It works like a normal echo statement except it outputs each character from a string one at a time with a delay in between. An example of how to use it is: (**typewriter "Hello World" .1**). The typewriter portion calls the function. The next in the quotation marks is what will be printed, and the number at the end is the delay in between each character (**1** being a one second delay, **.1** being a one tenth of a second delay). We should have used a faster delay for the whole project such as the delay we used for the menu which was **.025**. Again, I didn't make this function nor am I claiming ownership of it. A link to it can be found here: char - bash: reading text from a string one character at a time, with whitespace - Stack Overflow