Module 05 Course Project – Course Project

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Module 6 Course Project – Course Project Final

I have already taken the liberty of modularizing my course project under the CONTACT CLASS. Where I have established arrays to hold data specific functions to open and write data to a text file as an in-memory database of sorts, established constructor of the CONTACT CLASS called “cont” .

The 6 functions I declared under this class to modularize and use constructors to inherit loop structures creating objects for the initial program are as follows:

1. Create contact
2. Show contact
3. Save contact
4. Search contact
5. Edit contact
6. Delete contact

**CreateContact() Function:**

Will call for user input to add user data in reference to array objects in which variable user data is stored. **Example 1:1**

**A screenshot of a cell phone

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**ShowContact() function**

Uses system pointer to get memory location of stored contact data attributes using return functions for each viable object type. getName(), getphone(), getEmail(), getAddress(). **Example 1:2**

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**saveContact() function**

this function will use fstream to open and write to a text file object. While looping the pointer objects of the contact array values and calling a showContact() function to display the user results. **Example 1:3**

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**searchContact() Function**

This function will ask user to type in the phone number the user is searching for then take that data using a while loop and sort function to open and read the contact array object values in the text file. Then displaying the results to the user in the console. **Example 1:4**

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**editContact() Function:**

After calling system to clear the screen user log is displayed to ask user to input phone number. Will accept user input, call fstream to open in memory temp data base text file. Loop through array values using system object pointer to memory locations. If values match and are true the showContact() function is displayed, displaying a user message to enter new contact data. Then the createContact() function is called to persist data to the write file and array objects followed by a message that the contact in question has been updated. If no phone number is found the 1st loop will end the function. **Example 1:5**

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**deleteContact() Function**

declares number variable to hold reference , clears system screen, calls for user to enter the phone number of the contact they would like to delete. Calls fstream to open the appending text document in memory data base file to loop through array object values stored in the text file using the file stream seekg() method to loop through the text file inferring the if statement to loop the contractor object calling the getphone() method as a reference for the data object needing to be deleted. Creates a temp fstream file to add the searched data to sort using multiple text file objects. finally finding the object and removing the value and updating the index values reference point. Then displaying a user message that the contact has been deleted.

If the number does not match the main file stream and temp files stream will close displaying a user message that no contact was found.

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