CS131
Lesson 8: Sorted Lists Part 2

Start with SL part 1 design and we will add:

- btnAdd & btnSave
- File IO
- Add new items
- Confirm Delete
- Save to disk feature
- Confirm Exit if there are changes

1. Create a textfile that is comma-delimited to hold products. Name it inventory.txt
2. In our Form class:
    a. Add IO namespace
    b. Define a SortedList and instantiate it
    c. Define a variable for our diskFile
    d. Define a StreamReader & StreamWriter
    e. Create a bool flag to tell us if changes have been made to the SL/Grid
3. Create a void LoadSortedList() method that will read file data and load the data from file and add to SL and **avoid duplicates. This shows how to read a comma-delimited file.**
4. Create the void UpdateGrid() method that cycles through the SL and adds rows to the grid.
5. Create the void DoUpdate() method. Cycle through the items in the SL and save to disk.
6. Create the void NotifyUser(String^ msg) method
7. Create a dgvProducts_UserDeletingRow event to confirm delete.
8. Create the dgvProducts_UserDeletedRow event to notify changes were made.
9. Create a Form1_FormClosing() event to confirm exit
10.
11. In the Form_Load:
    a. Call the LoadSortedList method and if no errors call UpdateGrid()
12. Code the LoadSortedList method
13. Code Update the Grid
14. Make event handler for Add buttons and code to add new Key/Value pair w/o duplicates
15. Code the DoUpdate method and make handler for btnSave to call DoUpdate().
16. Code the NotifyUser method.
17. Code the Form_Closing event and have btnExit close the form.
18. Code the UserdeletingRow event to confirm a delete.
19. Code UserDeletedRow event to NotifyUser.