

Project 1 – Grade Report (Part E)

For this part of the project, you will need to add a new entry to the menu that allows the user to print to a file all information related to the students.

Update your project as described below:

- **OutputHandler.h**
 - Add the **OutputHandler.h** file to your project by including it in the **Header Files** folder.
 - The function implemented in this file, **printAllStudentsToFile**, asks the user to enter a file name and then calls the function **printStudentsToFile** of the **StudentList** class to retrieve the information necessary that will be printed on a text file.
- **Student.h**
 - Add the following declaration in the **Student.h** file, right before the **destructor**:

```
void printStudentInfoToFile(ofstream& out, double tuitionRate);
```
- **Student.cpp**
 - The implementation of the function **printStudentInfoToFile** is very similar to the implementation you wrote for the function **printStudentInfo**, with the difference that instead of using “cout” you need to use “out” and you will not be able to call any of the print functions available.
- **StudentList.h**
 - Add the following declaration in the **StudentList.h** file, right before the **destroyStudentList** function:

```
void printStudentsToFile(ofstream& outp, double tuitionRate) const;
```
- **StudentList.cpp**
 - The implementation of the function **printStudentsToFile** should:
 - Check if the list is empty and output an error message if it is, “**Cannot print. No students in the list.**”
 - Traverse the list and call the function **printStudentInfoToFile** of the **Student** class.
- **Main.cpp**
 - In the **processChoice** function of the **Main.cpp** file, you will need to add an additional choice: **Print students to file**
 - This should be **choice #6** of the menu selection. Make the necessary changes to run your program.

The **example.txt** shows you how your output file should look. The format is the same as the one that is printed in the console. Use the **student_data.txt** file included to test your work.

PROJECT DUE DATE (at the beginning of class you will be given instructions on how to turn in the project):

- **MW class:** Monday, November 2nd
- **TTh class:** Tuesday, November 3rd