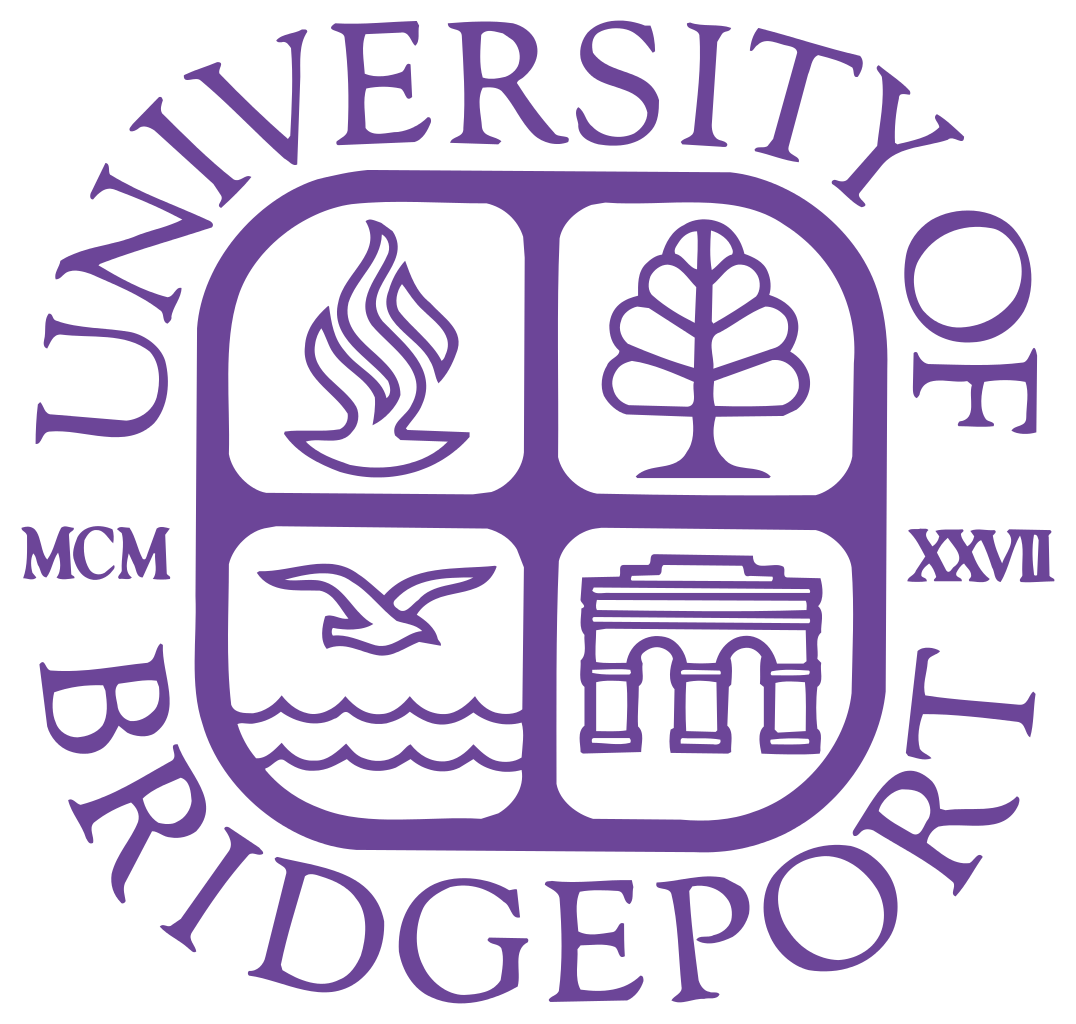
******

**Bashar Alhafni**

**Assignment #6**

**Objective:**

Build a GradeProcessing application which reads in a text file containing student information as shown below (you will add more students and their data to the file, the file name could be “StudentData.txt”). This is a comma separated file with the field order as: ID,FirstName,LastName,Test1,Test2,Major,UG or GRAD 123451,Bill, Baker,85,91,CPSC,GRAD 123452,Sally,Simpson,91, 92,CPEG,UG 123453,…….. Your program will have a GUI. From a menu item, you should be able to select the student data file via the “OpenFileDialog”, and be able to read it into a list of Students (List - List is a generic version of the ArrayList class) and display the data in a DataGridView. You will provide another menu item that will process the grades for each student in the list and write the following information to file selected from the “SaveFileDialog”. ID,LastName,Major,Grade The grade will be computed as 0.4\*test1 + 0.6\*test2 for an under graduate student and 0.5\*test1 + 0.5\*test2 for a graduate student. Add a form to the project called “FormAddStudent” so that you can add the data for another student. This form will have five text boxes for the ID, first name, last name, test1, and test 2 fields. There will be a drop down for selecting the major (possible majors are CPSC, CPEG, ELEG and MATH). The major will be an enumeration in the Student class. There will be two radio buttons to select whether the student is UG or GRAD (also an enumeration in the Student class). There will an “Add Student” button and “Cancel” button in the form. Provide another menu item that displays the FormAddStudent in a modal manner and collects the information about a new student. The new student is to be added to the existing list of students that was read from the text file earlier provided the student ID being added does not already exist in the data base. Provide another menu item to display the student grades (computed earlier and saved in a file) by reading them back from the grades file and showing them in a data grid view

**Explanation:**

I created the Form1 that has a menu strip which contains 4 menu items (Read students, Process and save, Add Student, and Display grades). When the read students menu item is selected, a file dialog will open in order to select a file which has all the information needed for all the students. The information is going to be read and saved inside a list of students. When the process and save menu item is selected, a new dialog will open up and the user will select the file that is going to be used to write information to. When the add student menu item is selected, the AddStudent from will show up. The AddStudent form will have text fields in order to collect information about the student and when the add student button is clicked, the new student will be added to the student list. After that, we write the info in list to the file. After writing the data, when the display grades menu item gets selected, the info written to the file will be read and the info will be displayed.

**Screen shots:**

