

Mandatory: the project should compile and run without any errors.

You are asked to develop a **Windows Forms** application for a **C#** developer conference, dedicated to companies. The companies will be able to buy three types of access packages for their employees: silver, gold and platinum.

(2.5p)

- Define the **AccessPackage** class with the properties **Id** (int), **Name** (string) and **Price** (double). Define the **Registration** class with the properties **CompanyName** (string), **NoOfPasses** (int) and **AccessPackageId** (int). The classes should contain parametrized constructors.
- The available access packages will be loaded from the **AccessPackages.txt** file. The text file should be created using a text editor at your choice and should contain 3 entries.

(2.5p)

- The instances of the **Registration** class will be added using a secondary form, that will implement the necessary validations. The user will be able to choose the access package using a ComboBox control. The instances of the class will be stored in a **List<T>** collection and will be displayed in the main form using a **ListView** control.
- The user will be given the possibility to either modify (right click) or delete the records.

(1p)

- Implement the explicit **double** cast operator in order to calculate the cost of each registration. Display the total cost for all registrations using a **StatusStrip** control and update it for any changes in the list of registrations.

(1p)

- The application will automatically persist the list of registrations to an XML based file. The list of registrations will be automatically restored from the XML file when the application starts (if the file exists).

(2p)

- Implement the **IComparer<T>** / **IComparer** interface in order to allow the user to sort the list of registrations ascendingly on either the name of the company or on the type of access package. The user should be able to choose the current sorting order from the main form.

(1p)

- In a secondary form, draw a **chart** containing the number of registrations for each type of access package.