Zarka Private University
Faculty of Science - Department of Computer Science
First Examination – Second Semester 2003 - 2004
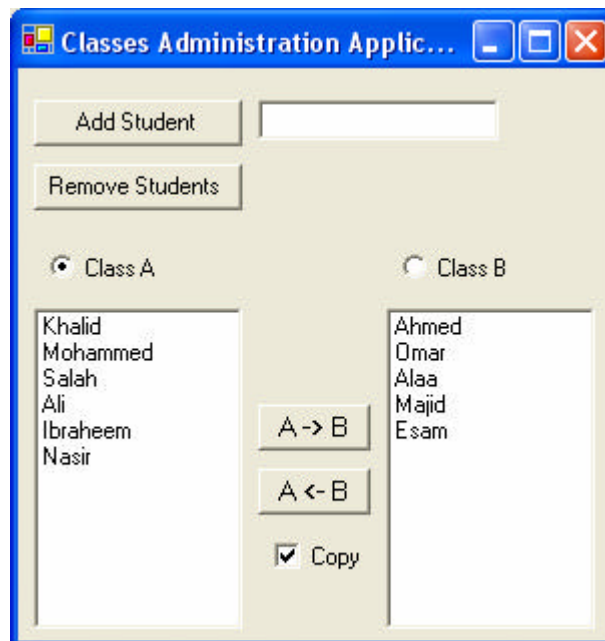**Special Languages 1 (VB.NET) 0306215**

Date: Monday, April 26 2004   **Time: 04:00 PM**
Instructor: Salah F. Saleh   **Duration: 1 Hour**

Q1) *[7 Marks]*

Write the VB.NET code required for the following administration application. The program works on two classes of students. Each class is represented by a multi selection list box.

Where the buttons acts as follows:

1. *Add Student Button*:
    It adds the student name from the text box into either the list A or list B depending on the checked option button.
2. *Remove Students Button:*
    It removes all the *selected* items from either the list A or list B depending on the checked option button.
3. *A ® B Button:*
    It moves or copies all the *selected* items from the list A into the list B depending on the check box copy.
4. *A ¬ B Button:*
    It moves or copies all the *selected* items from the list B into the list A depending on the check box copy.

Q2) *[8 Marks]*

Extend the "TreeView" class to build up a new class "MyTree". The new class must have the following members:

1. **AddRoot(String RootName)** method
   It adds a root to the tree. The tree has to contain one root only.
2. **AddChild(String ParentName, String ChildName)** method
   It adds a new child to a specified parent. If the parent not found, the method has to return a boolean value indicating that.
3. **RemoveNode(String Name)** method
   It removes a specified node from the tree. If the node not found, the method has to return a boolean value indicating that.
4. **FullPath(String Name)** property.
   It is a *read only* property that returns the full path of a specified node. You can utilize the predefined fullpath property of the treenode object.

May You Lucky