

Cairo University
Faculty of Engineering
Computer Engineering Department
CMPN202

Lab 2 – C# Practice

Lab Requirements: (75 minutes):

- Design a windows form application to create an application that:
 - Takes course name, min capacity, and max capacity of students.
 - Adds the course to the grid view below in the form when the user clicks on “add course” button.
 - Allows the user to remove any row in the grid view when choosing any cell in this row and then clicking on “remove selected course” button.
 - Clears all rows in the grid view when clicking on “clear” button.
- Your application consists of one form that look like this

	course	min student capacity	max student capacity
	course2	2	10
▶	course1	6	10

- Grading criteria:
 - **(1 point)** For creating the form.
 - **(2 point)** For the validation on both min and max capacity.
Validation here means:
 - To check that min capacity is less than max capacity and that both are positive numbers when clicking on “add course” button, otherwise, you should display a message to the user guiding him to enter correct values)
 - To disallow the user from entering any characters other than numbers, by choosing the appropriate input field.

- **(1 point)** When “add course” button is clicked on, the course information should be added to the data grid view.
- **(1 point)** You should disallow the user from entering empty values in the data grid view by checking on their values before adding a new row, otherwise you should display a message to the user guiding him not to leave empty input fields.
- **(2 point)** When “delete selected course” button is clicked on, you should remove the selected row from the data grid view.
- **(1 point)** You should disallow the user from editing any values in the data grid view.
- **(1 point)** When “clear” button is selected on, all entries in the data grid view should be removed.
- **(1 point)** For making the same interface as shown in the screenshot.
- **(Bonus point)** Separating this form into two forms where the second form will have only the data grid view, while the first form will have all other components of the interface.

Note: After 75 minutes, all students should stop working on their computers, and wait for their turn to discuss their work.