



Programming I | ITS2105 S01
Faculty: Anastasia Rashtchian

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Week 3: Week 3 - W3 Assignment 2

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Assignment 2: Console and GUI Program Using Arrays and Methods

You will need to create a console-based application whose Main() method accepts ten integer values from the user and stores them in an array. Next, create a method that determines and displays the smallest and largest of the ten values. Then, pass the array to the method.

Save the file as SmallAndLarge.cs.

Next, create a GUI application whose button's Click() method accepts ten integer values from a TextBox and stores them in an array that is declared above the Click() method. After the ten entries have been made, call a method that sorts and displays the ten values from smallest to largest.

Save the file as SmallAndLargeGUI.cs.

Embed the programs in a Microsoft Word document.

Cite any sources in APA format on a separate page. Include the description of your programming techniques and how the use of the GUI was integrated into your application.

Name your document **SU_ITS2105_W3_A2_LastName_FirstInitial.doc**.

Assignment 2 Grading Criteria

Maximum Points

< Created a console-based application whose Main() method

Subject: ITS2105 S01 : Week 3 Assignment 2 Strategies

From: Anastasia Rashtchian (Email@SchoolEmail.org)

To:

Cc: arashtchian@southuniversity.edu;

Date: Thursday, March 26, 2015 12:31 PM

Hello All,

Week 3 Assignment 2 is a challenging assignment this week because you need to create two programs - one console and one GUI.

Please make sure to review my posts in the discussion forums for additional information and references. Please start this assignment as soon as possible so that if you have any questions, you can get them answered before assignments are do. Please feel free to collaborate with your classmates on this so that you can all get it completed on time.

I will **not** be giving you exact code for this assignment, but rather similar code that you can use and change for the assignment to allow you a deeper understanding of the code.

For the first part of the assignment, a good start would be to get all your input and output established. You will need to get 10 numbers from the user so will need to have input prompts and input statements. ***However, if you wish to only use 3, that is fine. :)***

As you get the information from the user, you need to store it in an array. You will then need to sort the array to obtain the smallest and largest value. After sorting the array, the smallest value will be the first value and the largest value would be the last value. ***This portion of the program where you sort the array should be a function where the function is passed the array, sorts it and then returns a sorted array. You can simply use the Array.Sort() method.***

<http://www.csharp-examples.net/sort-array/>

For the second part of the assignment, you are to create a form that accepts input from the user and then displays the smallest and largest value. Make a worksheet identifying the labels and text boxes with names and text properties changed as was done in Week 2. The code behind your button will take the values from the text boxes by name and text property and place them in an array. You will then sort the array and display the first and last values being that they are the smallest and largest. ***You can use just 3 numbers rather than 10 if you wish. :) You can use the Array.Sort() method as well.***

I hope this helps. Please keep us posted.

Anastasia

EMailed By the Professor