

ASSIGNMENT #2

1. What is the Unicode code point for the German character:

ß

2. What is the Unicode code point for the Cyrillic (e.g., Russian) character:

Я

3. Use VB.NET to write a complete Windows application which when invoked displays the greeting “Good Day!” in either English or in the language of your assigned country, at the user's discretion. Your application's GUI should display an American flag icon, a flag icon for your assigned country's national flag, and an “EXIT” button. When a flag icon is clicked, the corresponding greeting should be displayed (for example, as the text on a label or button control), and text labeling the EXIT button should also change to the appropriate language.

For example, if your assigned country's primary language is Spanish, clicking the American flag icon should cause the greeting:

Good Day!

to be displayed, and should cause the EXIT button to be labeled:

Exit

whereas clicking the your assigned country's flag icon should cause the greeting

¡Buenos Días!

to be displayed, and should cause the EXIT button to be labeled:

Salir

Your program must use the first localization method discussed in class: localizable strings should be hard-coded within the VB.NET source code and localization should be effected by assigning the appropriate hard-coded strings to the corresponding control text properties in response to clicks on the flag icons. Your application must not employ the *localizable* property or resource files to implement the on-the-fly language/culture switching.

On the due date, you must turn in a CD or DVD in a hard plastic case containing (1) a text file named "MY_NAME.TXT" containing your full name; (2) a text file named "ANSWERS.TXT" containing your answers to questions #1 and #2 above; and (3) the complete project directory (including source code and deployable BIN subdirectory) for the .NET application specified in question #3 above. You may code the application in any one of the following programming languages: Microsoft Visual Basic, Microsoft Visual C, Microsoft Visual C++, or Microsoft Visual C#. Your application must be executable by clicking on the project .exe file located in the BIN subdirectory of your project directory. The CD/DVD you submit must have your name and "CS-540 HW#2" printed on the CD/DVD's label surface in block capital letters using a black permanent marker. Electronic submissions are not acceptable. If your submission fails to adhere to any of the above requirements, it will be returned to you ungraded and a score of zero will be recorded for the assignment. In addition to the above submission, you will be required, you will be required to demo your application in class to the instructor or the grader/assistant on the due date.