

STUDENT ACTIVITY 2.4B_2 KEY: INPUT VALIDATION REVIEW

MTA Course: Windows Development Fundamentals

Topic: Validate user input

File name: WinDevFund_SA_2.4B_2_Key

Lesson Objective:

2.4: Validate and implement user input. *This objective may include but is not limited to:* implementing the correct user input model based on application design and requirements; accepting keyboard and mouse input; validating user input through GUI controls such as text boxes and dialog controls.

Resources, software, and additional files needed for this lesson:

- Microsoft Visual Studio® 2008, or
 - Microsoft Visual Basic® 2008, Express Edition
(<http://www.microsoft.com/express/downloads/#2008-Visual-Basic>)
 - Microsoft Visual C#® 2008, Express Edition
(<http://www.microsoft.com/express/downloads/#2008-Visual-CS>)

Directions to the student:

Answer the following questions.

Content:

Part I:

1. Write a mask string to restrict input to the proper format for a Social Security number (example: 123-45-6789).
000-00-0000
2. What event can be used to validate *TextBox* input programmatically?
Validating
3. What property can hold a string used to validate input in a *MaskedTextBox*?
Mask

4. Write a mask string to accept a word with between 5 and 10 letters.
LLLLL?????
5. Write a mask string to accept a date, including a four-digit year.
00/00/0000

Part II: Create a form that prompts that user to enter his or her full name. Use the *Validating* event to ensure that they enter at least two names. Also validate that he or she entered a first name followed by a last name by checking to see that there are no commas. Let the user know if their input is invalid, by making a label visible or by using a *MessageBox*.

The students' solutions should use a *Validating* event handler to examine the string for the presence of spaces and commas. It should set *e.Cancel* to True if the input is invalid.