

STUDENT ACTIVITY 1.2: EVENTS AND EVENT HANDLERS

MTA Course: 10754 Microsoft .NET Fundamentals

Topic: Understand events and event handling in the .NET Framework

File name: 10754_Msft.NET_SA_1.2

Lesson Objective

1.2: Understand events and event handling in the .NET Framework. *This objective may include but is not limited to:* understanding the event-driven programming model and event handlers, raising events, and implementing delegates.

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

- Microsoft® Visual Studio® 2010; students may also use Microsoft Visual C#® 2010 Express or Microsoft Visual Basic® 2010 Express, available free at <http://www.microsoft.com/express/Windows/>.

Directions to the student:

Create a form in a Visual Studio project with the controls and event handlers for each of the following prompts.

Ask your instructor to further explain concepts that you do not understand fully. The instructor will verify your work.

1. A Button with the text “Submit.” When the MouseEnter event is raised, the button text should turn red. When the MouseLeave event is raised, the button text should return to black.
2. Create a Label that displays the number 0. Add a Timer to the form and create an event handler that responds to the Tick event by changing the label to display a random number. As the application runs, the value in the Label should change continuously.
3. Create two RadioButtons, one labeled “Option 1” and the other “Option 2.” When either is selected, that option should be displayed in blue text, while the other should display in standard black text.