

## STUDENT ACTIVITY 1.3: EXCEPTION HANDLING

MTA Course: 10754\_Microsoft .NET Fundamentals

Topic: Exception handling in the .NET Framework

File name: 10754\_Msft.NET\_SA\_1.3

### Lesson Objective

**1.3:** Understand structured exception handling in the .NET Framework. *This objective may include but is not limited to:* understanding error handling concepts, exceptions, and exception types.

### 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 the Visual Studio project described below implementing sound exception-handling techniques. Ask your instructor to further explain concepts that you do not understand fully. The instructor will verify your work.

As you work, keep in mind that there are usually multiple approaches to these types of programming problems.

### Content:

1. Create a form that allows the user to enter two numbers into text boxes.
2. Create four buttons to provide basic calculator functionality.
  - For example, clicking a button labeled ‘+’ would add the two entered numbers and output the result to a label or *MessageBox*; other buttons should implement subtraction, division, and multiplication.
3. Use structured exception handling to resolve two key input problems gracefully: entering non-numeric data before clicking a button, and attempting to divide by zero.