# CITP 155 – Programming I

## Chapter 7 Worksheet

## Graded Activity (15 points)

After reading Chapter 7, pages 305-325 in **Microsoft Visual Studio 2015 Unleashed**, respond to the following. Leave the questions in a black font. Enter your answers in a blue font.

1. For what three things is IntelliSense responsible?
   1. Providing a list of code fragments that match the charaters you have already entered
   2. highlighting/preselecting the one that makes the most sense given the surrounding context

3. Automatically inserting that code fragment in-line.

1. In what two ways does IntelliSense save time?

It looks up types and members in the reference documentation for you, and can insert that code without you actually having to type it yourself.

1. How does “Complete Word” work?

After you have typed enough characters for IntelliSense to recognize what you re trying to write, a guess is made as to the complete word you are in the process of typing. You are then presented with this guess as well as alternative guesses and you can then insert that into your code with one keystroke.

1. How can you manually invoke the “Complete Word” functionality if it is not present?

Ctrl+Space, or Alt+right-arrow key combinations.

1. What does “Quick Info” do?

Quick Info displays the complete code declaration and help information for any code construct.

1. How do you invoke “Quick Info”?

You invoke it by hovering the mouse pointer over an identifier; a pop-up box displays the information available for that identifier.

1. What does “List Members” provide?

It provides a scrollable list of all valid member variables and functions to a specific type of a given type or namespace.

1. What are the steps to use “List Members”?
   1. Type the name of a class.
   2. Type a period.
   3. Manually scroll through the list and select the desired member.
   4. Leverage Complete Word by pressing the Tab key to automatically insert the member into your line of code.
2. What does “Parameter Info” do?

It provides interactive guidance for the parameters needed for any given function call.

1. What are the steps to use “Parameter Info”?
   1. Type the name of a function
   2. Type an open parenthesis.
   3. Scroll through the different signatures by using the up/down arrow cues, in the pop-up box.
   4. Start typing the actual parameters you want to pass into the function.
2. What is a “Code Snippet”?

They are prestocked lines of code available for selection and insertion into the text editor.

1. What are the steps to use the “Code Snippet” inserter?

You right-click at the intended insertion point within an open text editor window and then select Insert Snippet from the shortcut menu.

1. What is “Brace Matching”?

It refers to the visual cues that the code editor uses to make you aware of your matching delimiters.

1. With what delimiters does brace matching work?

Parentheses: (), Brackets: [], <>, Quotation Marks: “”, and Braces: {}

1. With what keyword pairs does brace matching work in C#?

#region, #endregion

#if, #else, #endif

case, break

default, break

for, break, continue,

if, else

while, break, continue

**Extra Credit:** What are the steps to use “Organize Usings” to remove any unnecessary Using statements from your code? (You will have to use the hints in the textbook, do additional research, and perhaps use your Visual Studio instance to determine the exact clicks to make this happen.)

Edit < Intellisense < Remove and Sort Usings