# CITP 155 – Programming I

## Chapter 4 Worksheet

## Graded Activity (30 points)

After reading Chapter 4 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. What are the two types of containers used by Visual Studio to organize code?

Solutions and Projects are the two types of containers.

1. Which type of container is virtual?

Solutions are the virtual container.

1. Which type of container is physical and virtual?

Projects are physical and virtual containers.

1. Which type of container is turned into compiled code?

Projects are turned into compiled code, each project results in the creation of a .NET component.

1. How many solutions can an instance of Visual Studio load at one time?

Only one.

1. What should you do if you need to work with multiple Visual Studio solutions at one time?

Launch another instance of Visual Studio.

1. What are two ways solutions contribute to the development experience in Visual Studio?

They allow you to treat different projects as one cohesive unit of work. A solution also simplifies certain configuration tasks by enabling you to apply settings across all the solution’s child projects.

1. Can a project be loaded independently of a solution within Visual Studio?

No, a project cannot be loaded independently of a solution within Visual Studio.

1. What is the file extension for a Visual Studio solution definition file?

.sln

1. A Visual Studio solution definition file contains references to the projects that belong to the solution. What are three attributes found in the solution definition file?

Solution user options file persists, any customizations or changes you make can change the way the solution is displayed within the IDE, certain source control settings, IDE configuration data.

1. True or False: An easy way to compile all the projects within a solution is to compile the solution itself.

False, a solution cannot be compiled.

1. List five file types that can be created as a part of a Visual Studio solution directly within the IDE.

Text (.txt), Style sheet (.css), XML schema (.xsd), Bitmap file (.bmp), Cursor file (.cur)

1. Other than grouping items visually, what benefit do you gain from using solution folders?

Solution folders allow you to apply certain commands against all the projects contained within an individual folder.

1. How do you launch the Solution Properties window?

Click the solution in the Solution Explorer window and then click View, Property Pages, or right click the solution in the Solution Explorer and select Properties.

1. On what solution property page are build order established?

You can use the Project Dependencies property page to manually change build order.

1. What is set on the Build Configuration property page?

You can set a configuration, a platform value, and a check box on this page allows you to indicate whether to build and deploy a project.

1. If you have a solution open in Visual Studio and you create a new project, what option is offered?

You can add the new project to the existing solution.

1. What options would you select from the menu to create a new website project?

File, New, Website

1. What is the file extension of a Visual Studio Visual C# project definition file?

.csproj

1. What three pieces of information regarding source files and project properties and options are included in a Visual Studio project definition file?

Build Configurations, Project references and dependencies, Source code file locations/types.

1. True or False: You can mix a variety of languages in the same Visual Studio project.

False, projects are language specific so you cannot mix different languages within a specific project.

1. True or False: You can mix a variety of languages in the same Visual Studio solution.

True, a solution can contain many projects, each one in a different language.

1. What determines the default project items contained in a new Visual Studio project?

The project template the user selected, and the language of the project.

1. True or False: Solution folders are physical folders that can be found in File Explorer.

False, solution folders are virtual only.

1. True or False: Project folders are physical folders that can be found in File Explorer.

True, project folders are written on disk within your project directory structure.

1. List three options that can be accessed from the Application project property page.

Assembly name, root/default namespace, startup object.

1. On what project property page are DEBUG and TRACE constants turned on?

They are found on the Build project property page.

1. On what project property page do you set path information to help Visual Studio find assemblies referenced by the project?

The Reference Path project property page.

1. On what project property page do you set name/value pairs which store information specific to a project or application?

The Settings project property page.

1. What is the most confusing thing for you about the Visual Studio IDE?

Since I’m not used to building projects, I don’t know which items are useful and which items are not as useful. I am sure this will become clearer as we dive deeper into programming, but right now I don’t know what the weight is of some of the tools the Visual Studio IDE provides.