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## Session Six: C# Classes, Namespaces and Methods

Though this be madness, yet there is method in it.

*William Shakespeare, English poet and playwright (1564 – 1616)*

Classes can be thought of as containers that C# code is separated into.

All C# code must be contained within a class. For example, the code-behind files that are automatically created with your pages are classes.

.NET programming may seem complicated with its hierarchical system of classes and extensive library of functions, but it's really not all that difficult.

In this session you'll learn the essentials of how to use C# classes, and even to create some classes of your own.

### Session Objectives

By the end of this session you will be able to:

- Create a class
- Create an instance of a class
- Use the .NET library
- Work with namespaces
- Create and use methods
- Create methods with arguments
- Create methods that return a value
- Create a private method
- Create a static method
- Create and dispose of instances
- Create class constructors