**Operator Overloading in C# (Overloading the - operator)**

What is the purpose of overloading an operator?

When dealing with lists, more often than not, we do not know whether the array values will be of int, string, double, etc.

In these cases, we use custom lists.

public class CustomClassList<T>

{

// Code will be entered here

}

When we attempt to use operators such as +,-,\*,%, etc, the data type(int, string, double, etc.) is not known to the program.

So when you try to subtract one list from the other (list1 and list2) like the following:

CustomClassList<int> comboList = list1 + list2;

list1 + list2 gets the red error underline with the following message:

" Operator '-' cannot be applied to operands of type 'CustomClassList<int>' and 'CustomClassList<int>' "

When you get this error, you must override the operator. Here is a basic 'skeleton'.

public static CustomClassList<T> operator +(CustomClassList<T> list1, CustomClassList<T>list2)

{

}

When using the operator keyword, you must use a public and static modifier like above