C# Notes

Escape Sequences in C#

http://msdn.microsoft.com/en-us/library/h21280bw.aspx

Verbatim Literal is a string with an @ symbol prefix, as in @"Hello".

Verbatim literals make escape sequences translate as normal printable characters to enhance readability.

Practical Example:

Without Verbatim Literal: "C:\\Pragim\\DotNet\\Training\\Csharp" - Less Readable **With Verbatim Literal:** @"C:\Pragim\DotNet\Training\Csharp" - Better Readable

In C# types are divided into 2 broad categories.

```
Value Types - int, float, double, structs, enums etc Reference Types - Interface, Class, delegates, arrays etc
```

By default value types are non nullable. To make them nullable use ? int i = 0 (i is non nullable, so "i" cannot be set to null, i = null will generate compiler error)

```
int? j = 0 (j is nullable int, so j=null is legal)
```

Nullable types bridge the differences between C# types and Database types

Program without using NULL coalescing operator

```
using System;
class Program
{
    static void Main()
    {
        int AvailableTickets;
        int? TicketsOnSale = null;

        if (TicketsOnSale == null)
        {
            AvailableTickets = 0;
        }
        else
        {
            AvailableTickets = (int)TicketsOnSale;
        }

        Console.WriteLine("Available Tickets={0}", AvailableTickets);
    }
}
```

The above program is re-written using NULL coalescing operator

```
using System;
class Program
{
    static void Main()
    {
        int AvailableTickets;
        int? TicketsOnSale = null;

        //Using null coalesce operator ??
        AvailableTickets = TicketsOnSale ?? 0;

        Console.WriteLine("Available Tickets={0}", AvailableTickets);
     }
}
```