

# Advance Programming Techniques (APT)

Lecture # 2

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# C# Basics

- Code Explanation
- Variables (int, long, float, double, char, string, bool)
- 'F', 'D', 'L' with data type values
- Max & Min values for variables
- Constants

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# Input / Output

- Console.Write()
- Console.WriteLine()
- Console.ReadLine()
- Type Casting
  - Convert.ToInt32

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# Operators in C#

- Arithmetic Operators
  - +, -, \*, /, %, ++, --
- Assignment Operators
  - =, +=, -=, \*=, /=, % =, &=, |=
- Relational Operators
  - ==, !=, >, <, >=, <=
- Logical Operators
  - &&, ||, !

# Common Math Functions

- `Math.Max(x,y)`
- `Math.Min(x,y)`
- `Math.Sqrt(x)`
- `Math.Abs(x)`
- `Math.Round(x)`

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# Common String Functions

- `String.Length()`
- `String.ToUpper()`
- `String.ToLower()`
- `String.Concatenate()`
- String interpolation
- `String.IndexOf()`
- `String.Substring()`

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