Error > Anythinh which gives you wrong result

1. Compile Time Error> Syntax Error , occurs when u do not follow syntax of language (corrected)
2. Logical Error > Run time errors > Logic is not correct (corrected)
3. Exception > They will not occur always (not rectified) we have to handle them

Exception handling

Try catch finally

If there is exception > try > catch > finally

If there is no exception > try > finally

Exception > Base class

System Defined , User Defined / Custom Exceptions

Steps to create User defined Exceptions

Create a class, inherit that class from Exception class

Add propertry

In that ,add constructor

1. Extension Methods >

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Assignment

{

class Test

{

public void Get()

{

Console.WriteLine("Get of A");

}

}

static class ExtendedTest

{

public static void Get2(this Test test, string name)

{

Console.WriteLine("Inside Get of new");

}

}

internal class Practice

{

public static void Main()

{

Test t = new Test();

t.Get();

t.Get2("aaa");

}

}

}

Anonymous Methods >

<https://dotnettutorials.net/lesson/anonymous-method-c-sharp/>

delegate int Del (int x, int y);

internal class Main2

{

static Del d1 = delegate (int x, int y)

{

return x + y;

};

static int Add(int x, int y)

{

return x + y;

}

static void Main()

{

Console.WriteLine(d1(1,1));

Del d = new Del(Add);

Console.WriteLine(d(20,90));

}

}

String INterploation

[String Interpolation In C# (c-sharpcorner.com)](https://www.c-sharpcorner.com/article/understanding-string-interpolation-in-c-sharp/#:~:text=C%23%20string%20interpolation%20is%20a%20method%20of%20concatenating%2C,bracket%20%7B%7D%20using%20the%20following%20syntax.%20%7B%3CinterpolatedExpression%3E%5B%2C%3Calignment%3E%5D%5B%3A%3CformatString%3E%5D%7D%20Where%3A)

[C# 6.0 String Interpolation (c-sharpcorner.com)](https://www.c-sharpcorner.com/UploadFile/5d932c/C-Sharp-6-0-string-interpolation/)

C# string interpolation is a method of concatenating, formatting and manipulating strings. This feature was introduced in C# 6. Using string interpolation, we can use objects and expressions as a part of the string interpolation operation. Syntax of string interpolation starts with a ‘$’ symbol and expressions are defined within a bracket {} using the following syntax. {<interpolatedExpression>[,<alignment>][:<formatString>]}

Null Conditional Operator

[How To Handle Null Values In C# (c-sharpcorner.com)](https://www.c-sharpcorner.com/article/how-to-handle-null-values-in-c-sharp/#:~:text=This%20problem%20can%20be%20solved%20in%20the%20following,means%20that%20the%20type%20will%20have%20no%20value.)