namespace exceptiondemo\_pre

{

internal class Program

{

static void Main(string[] args)

{

try

{

int a, b;

Console.WriteLine("Enter Number:");

a = int.Parse(Console.ReadLine());

b = 10 / a;

Console.WriteLine("b:" + b);

//int[] c = new int[5];

//c[7] = 200;

Console.WriteLine("------------before catch----------------");

}

catch (DivideByZeroException e)

{

Console.WriteLine("do not enter zero");

Console.WriteLine(e.Message);

Console.WriteLine(e.StackTrace);

}

catch (FormatException e)

{

Console.WriteLine("Enter only numbers");

Console.WriteLine(e.Message);

}

catch (IndexOutOfRangeException e)

{

Console.WriteLine("array index is invalid");

Console.WriteLine(e.Message);

}

catch (Exception e)

{

Console.WriteLine(e.Message);

}

finally

{

Console.WriteLine("finally is always executed");

}

Console.WriteLine("------------after catch----------------");

Console.ReadKey();

}

}

}

**Exception demo 2**

namespace exceptiondemo2\_pre

{

internal class Program

{

static void Main(string[] args)

{

try

{

int a, b;

a = 0;

b = 10 / a;

Console.WriteLine("b:" + b);

}

finally

{

Console.WriteLine("finally is always executed");

}

Console.ReadKey();

}

}

}

**Exception Demo 3:**

//user defined exception

namespace exceptiondemo3\_pre

{

class PasswordLengthException : Exception

{

public PasswordLengthException() : base("Password length must be greater than or equal to 6")

{ }

}

class SpecialCharException: Exception

{

public SpecialCharException() : base("Password must contains atleast one special charecter")

{ }

}

internal class Program

{

static void Main(string[] args)

{

try

{

string password;

Console.WriteLine("Enter Password:");

password = Console.ReadLine();

if(password.Length<6)

throw new PasswordLengthException();

if (!(password.Contains("@") || password.Contains("#") || password.Contains("$")))

throw new SpecialCharException();

Console.WriteLine("Valid Password");

}

catch(PasswordLengthException e)

{

Console.WriteLine(e.Message);

}

catch (SpecialCharException e)

{

Console.WriteLine(e.Message);

}

Console.ReadKey();

}

}

}