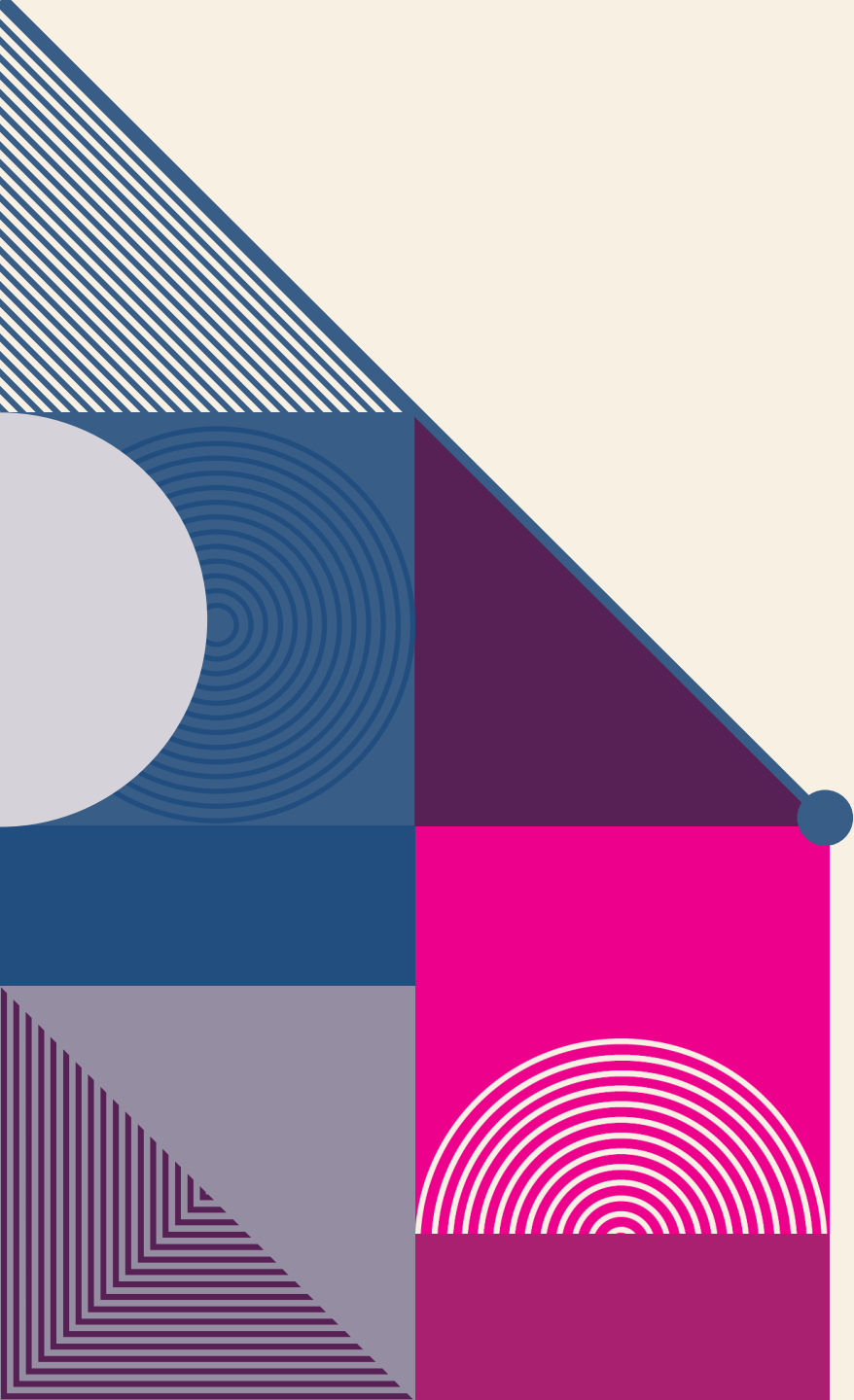




EXCEPTION HANDLING IN C# !!



AGENDA

What is Exception ?

Why we use Exception handling ?

Exception handling in c# with code !



WHAT IS THE EXCEPTION?

When execute the program , we can found some different errors such as :coding errors made by the programmer ,error in inputs and some **unexpected error** .

In this cases and **unexpected errors** in c# :
error → throw **Exception**

A decorative graphic on the left side of the slide, composed of several overlapping geometric shapes and patterns. It includes a blue triangle with white diagonal lines, a light blue circle, a dark blue square with concentric circles, a dark purple triangle, a bright pink square with white concentric semi-circles, and a grey square with a dark purple triangle and white concentric lines.

WHY WE USE EXCEPTION HANDLING ?

We use exception handling to catch any unexpected errors before execute the code and program and we can Handel it ro understand the problem in a simple sentence .



EXCEPTION IN C#

In c# represent it in : **try and catch statement .**

```
try { the code that will execute }
```

```
Catch (Exception ex) { the handling errors  
and output the ex }
```

EXAMPLE

WITH EX HANDLING

```
try
{
    int[] myNumbers = {1, 2, 3};
    Console.WriteLine(myNumbers[10]);
}
catch (Exception e)
{
    Console.WriteLine("Something went wrong.");
}
```

The output will be:

```
Something went wrong.
```

WITHOUT EX HANDLING

```
int[] myNumbers = {1, 2, 3};
Console.WriteLine(myNumbers[10]); // error!
```

The error message will be something like this:

```
System.IndexOutOfRangeException: 'Index was outside the bounds of the array.'
```