C# PROGRAM-4

Develop a C# program to demonstrate Division by Zero and Index Out of Range exceptions.

using System;

class Program

{

static void Main()

{

// Division by Zero Exception

try

{

int numerator = 10;

int denominator = 0;

int result = numerator / denominator; // Attempting to divide by zero

Console.WriteLine("Result of Division: " + result);

}

catch (DivideByZeroException ex)

{

Console.WriteLine("Division by Zero Exception: " + ex.Message);

}

Console.WriteLine();

// Index Out of Range Exception

try

{

int[] numbers = { 1, 2, 3, 4, 5 };

int index = 10; // Attempting to access an index that is out of range

int value = numbers[index];

Console.WriteLine("Value at index " + index + ": " + value);

}

catch (IndexOutOfRangeException ex)

{

Console.WriteLine("Index Out of Range Exception: " + ex.Message);

}

}

}

In this program, the first **try** block attempts to perform a division by zero, and if it encounters a **DivideByZeroException**, it catches the exception and prints an appropriate message.

The second **try** block attempts to access an index that is out of range in an array. If an **IndexOutOfRangeException** occurs, it catches the exception and prints an appropriate message.