

**Questions01**

Write a java program that takes two integers as input and performs division on them. Implement exception handling to catch and handle the `ArithmeticException` that occurs when dividing by zero.

Print an appropriate error message if the denominator is zero.

```
package com.mycompany.exceptionhadling;

import java.util.Scanner;

public class Exceptionhadling {

    public static void main(String[] args) {

        int no1,no2,ans;

        Scanner sc=new Scanner(System.in);

        try
        {
            System.out.println("Enter first number");
            no1=sc.nextInt();

            System.out.println("Enter Second number");
            no2=sc.nextInt();

            ans=no1/no2;

            System.out.println("Answer is"+ans);
        }
        catch(Exception e)
        {
            System.out.println("Number divided by zero error");
        }
    }
}
```

**Questions02**

2)Write a java program that creates an array of integers and attempts to access an index that is out of bounds. Implement exception hadling to catch and handle the `ArrayIndexOutOfBoundsException`.

Print an appropriate error message if an invalid index is accessed

```

public class ArrayExceptionHandling
{
    public static void main(String[] args)
    {
        int[] array = {1, 2, 3, 4, 5};
        try {

            // Access an index that is out of bounds
            int value = array[10];
            System.out.println("Value: " + value);
        }
        catch (ArrayIndexOutOfBoundsException e)
        {

            System.out.println("Error: Invalid index accessed!");
        }
    }
}

```

### Questions03

Write a java program that attempts to read a file that does not exist. Implement exception handling to catch and handling the FileNotFoundException.

Print an appropriate error message if the file is not found

```

import java.io.File;
import java.io.FileNotFoundException;
import java.util.Scanner;
public class FileExceptionHandling
{
    public static void main(String[] args)
    {
        String fileName = "nonexistent_file.txt";
        try {

            File file = new File(fileName);
            Scanner scanner = new Scanner(file);

            // Read file contents or perform any necessary operations
            scanner.close();
        }

        catch (FileNotFoundException e)
        {
            System.out.println("Error: File not found!");
        }
    }
}

```

