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## <u>Lab10</u>

01.

```
import java.util.Scanner;
public class ExceptionHandling {
  public static void main(String[] args) {
    Scanner scanner = new Scanner(System.in);
    System.out.println("Enter the numerator: ");
    int numerator = scanner.nextInt();
    System.out.println("Enter the denominator: ");
    int denominator = scanner.nextInt();
    try {
      int result = numerator / denominator;
      System.out.println("The result of the division is: " + result);
    } catch (ArithmeticException e) {
      System.out.println("Division by zero error.");
    }
  }
```

```
}
```

## 02.

```
import java.util.Scanner;
public class ExceptionHandling {
  public static void main(String[] args) {
    Scanner scanner = new Scanner(System.in);
    System.out.println("Enter the size of the array: ");
    int size = scanner.nextInt();
    int[] array = new int[size];
    System.out.println("Enter the index of the element you want to access: ");
    int index = scanner.nextInt();
    try {
      System.out.println("The element at index " + index + " is: " + array[index]);
    } catch (ArrayIndexOutOfBoundsException e) {
      System.out.println("The index you entered is out of bounds.");
    }
  }
}
```

```
import java.io.File;
import java.io.FileNotFoundException;
import java.io.IOException;
public class ExceptionHandling {
  public static void main(String[] args) {
    File file = new File("file_that_does_not_exist.txt");
    try {
      System.out.println("The contents of the file are: ");
      System.out.println(file.readAllBytes());
    } catch (FileNotFoundException e) {
       System.out.println("The file does not exist.");
    } catch (IOException e) {
      System.out.println("An error occurred while reading the file.");
    }
  }
}
```