



**SCTR's PUNE INSTITUTE OF COMPUTER TECHNOLOGY PUNE - 411043**

**Department of Electronics & Telecommunication Engineering (E&TE)**

**ASSESSMENT YEAR: 2023-2024**

**CLASS: TE**

**BATCH:-**

**SUBJECT: Fundamental of JAVA Programming**

**Assignment No:**

**Roll No:**

**Date:**

**Programmer Name: Vasu Agrawal**

**Batch: N5**

```
package EXPT_9;

import java.util.Scanner;
public class EXPT_9{

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner obj=new Scanner(System.in);
        try
        {
            //1.Arithmetic exception
            /*int a,b;
            System.out.print("Enter first number:");
            a=obj.nextInt();
            System.out.print("Enter second number:");
            b=obj.nextInt();
            int c=a/b;
            System.out.print(a+"/"+b+"="+c);*/

            //2.Array index out of bound
            /*int arr[]={3,6,9};
            System.out.print(arr[5]);*/

            //3.null pointer
            /*String str=null;
            System.out.print(str.charAt(0));*/

            //4.Number format exception
            /*int a=Integer.parseInt("abc");
            System.out.println(a);*/

            //5.String index out of bound
            /*String str="Java Programming";
            System.out.println(str.charAt(30));*/
```



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```
}

catch(ArithmeticException e)
{
    System.out.println("Arithmetic Exception - division by 0 is not possible+"+e);
}

catch(ArrayIndexOutOfBoundsException e)
{
    System.out.println("Array index out of bound "+e);
}

catch(NullPointerException e)
{
    System.out.println("\nNull pointer exception "+e);
}

catch(NumberFormatException e)
{
    System.out.println("Number Format Excetion "+e);
}

catch(StringIndexOutOfBoundsException e)
{
    System.out.println("String index out of bound exception "+e);
}

catch(ArrayStoreException e)
{
    System.out.println("Array store exception.. "+e);
}

finally
{
    System.out.println("\nTry-catch block is executed");
}
}
```



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## Output:

```
Enter first number:5
Enter second number:0
Arithmetic Exception - division by 0 is not possible+java.lang.ArithmeticException: / by zero

Try-catch block is executed
```

```
Array index out of bound java.lang.ArrayIndexOutOfBoundsException: Index 5 out of bounds for length 3

Try-catch block is executed
```

```
Null pointer exception java.lang.NullPointerException: Cannot invoke "String.charAt(int)" because "<local2>" is null

Try-catch block is executed
```

```
Number Format Excetion java.lang.NumberFormatException: For input string: "abc"

Try-catch block is executed
```

```
String index out of bound exception java.lang.StringIndexOutOfBoundsException: Index 30 out of bounds for length 16

Try-catch block is executed
```