OOPS JAVA

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 Write a program in java for exception handling arithmetic exception array index out of bound exception number format exception null pointer exception

```
package myClass;
public class exphand {
      public static void main(String[] args) {
                    int value = 10/0;
                    System.out.println(value);
             catch(ArithmeticException e){
                    System.out.println(e);
             }
             try {
                    int arr[] = \{10,20,30\};
                    int ind = arr[3];
                    System.out.println(ind);
             catch(ArrayIndexOutOfBoundsException e) {
                    System.out.println(e);
             }
             try {
                    String str = null;
                    int len = str.length();
                    System.out.println(len);
             catch(NullPointerException e) {
                    System.out.println(e);
             }
             try {
                    String str = "hello";
                    int x = Integer.parseInt(str);
                    System.out.println(x);
```

```
java.lang.ArithmeticException: / by zero
java.lang.ArrayIndexOutOfBoundsException: Index 3 out of bounds for length 3
java.lang.NullPointerException: Cannot invoke "String.length()" because "str" is
null
java.lang.NumberFormatException: For input string: "hello"
```

2. WAP to Create a class Employee having members as follows:

private intempNo

private String empName

private intempBasic

Parameterized constructor to initialize members.

Getter methods for all instance variables

Create a class WriteEmployee having a main method. Ask users to enter details of an employee and set them in an Employee object. Store details of this object in a file emp.txt. Read employee details from the file and display those details.

```
package myClass;
import java.util.Scanner;
class Employee {
    private int empNo;
    private String empName;
    private int empBasic;
    public Employee(int empNo, String empName, int empBasic) {
        this.empNo = empNo;
        this.empName = empName;
        this.empBasic = empBasic;
    }
    public int getEmpNo() {
        return empNo;
    }
```

```
public String getEmpName() {
        return empName;
    public int getEmpBasic() {
        return empBasic;
public class WriteEmployee {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.println("Enter employee details:");
        System.out.print("Employee number: ");
        int empNo = scanner.nextInt();
        System.out.print("Employee name: ");
        String empName = scanner.next();
        System.out.print("Employee basic salary: ");
        int empBasic = scanner.nextInt();
        Employee employee = new Employee(empNo, empName, empBasic);
        System.out.println("\nEmployee details:");
System.out.println("Employee number: " + employee.getEmpNo());
System.out.println("Employee name: " + employee.getEmpName());
        System.out.println("Employee basic salary: " + employee.getEmpBasic());
```

```
Enter employee details:
Employee number: 007
Employee name: Alex
Employee basic salary: 1000000

Employee details:
Employee number: 7
Employee name: Alex
Employee basic salary: 1000000
```