

Assignment No. 06

Name -: Parth Manoj Poriya

Roll No-: 34

Branch-: SE IT(B2)

Subject-: Object Oriented Programming

TITLE

Write a program to Implement a program to handle Arithmetic exception, Array Index Out of Bounds, Number Format and Null Pointer Exception.

INPUT

```
import java.util.Scanner;
```

```
public class Assign6 {  
    public static void main(String[] args) {  
        Scanner sc = new Scanner(System.in);  
        int ch;  
  
        do{  
            System.out.println("Enter your choice:");  
            System.out.println("1.Arithmetic Exception");  
            System.out.println("2.NullPointer Exception");  
            System.out.println("3.NumberFormat Exception");  
            System.out.println("4.ArrayIndexOutOfBounds Exception");
```

```
System.out.println("5.Exit");  
ch = sc.nextInt();
```

```
switch (ch) {  
    case 1:  
        try {  
            int a = 100 / 0;  
        } catch (ArithmeticException e) {  
            System.out.println(e);  
        }  
        System.out.println("-----");  
        break;  
    case 2:  
        try {  
            String s = null;  
            System.out.println(s.length());  
        } catch (NullPointerException e) {  
            System.out.println(e);  
        }  
        System.out.println("-----");  
        break;  
    case 3:  
        try {  
            String m = "abc";  
            int i = Integer.parseInt(m);  
        } catch (NumberFormatException e) {  
            System.out.println(e);  
        }  
        System.out.println("-----");  
        break;  
    case 4:  
        try {  
            int a[] = new int[5];  
            a[10] = 50;  
        } catch (ArrayIndexOutOfBoundsException e) {
```

```

        System.out.println(e);
    }
    System.out.println("-----");
    break;
case 5:
    System.exit(0);
    System.out.println("-----");
    break;
default:
    System.out.println("Invalid choice");
    break;
}
}while(ch!=6);

    sc.close();
}
}

```

OUTPUT

PS C:\Users\Acer\OneDrive\Desktop\Java> javac Assign6.java

PS C:\Users\Acer\OneDrive\Desktop\Java> java Assign6

Enter your choice:

- 1.Arithmetic Exception
- 2.NullPointer Exception
- 3.NumberFormat Exception
- 4.ArrayIndexOutOfBounds Exception
- 5.Exit

1

java.lang.ArithmeticException: / by zero

Enter your choice:

- 1.Arithmetic Exception
- 2.NullPointer Exception
- 3.NumberFormat Exception

4.ArrayIndexOutOfBoundsException Exception

5.Exit

2

java.lang.NullPointerException: Cannot invoke "String.length()" because "<local3>" is null

Enter your choice:

1.Arithmetic Exception

2.NullPointer Exception

3.NumberFormat Exception

4.ArrayIndexOutOfBoundsException Exception

5.Exit

3

java.lang.NumberFormatException: For input string: "abc"

Enter your choice:

1.Arithmetic Exception

2.NullPointer Exception

3.NumberFormat Exception

4.ArrayIndexOutOfBoundsException Exception

5.Exit

4

java.lang.ArrayIndexOutOfBoundsException: Index 10 out of bounds for length 5

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