OOP Lab Assignment-6

Exception Handling

Name: - Atharva Kinikar
Div: - SE 10
Batch: - F 10
Roll No: - 23241

Code: -

```java
/*
Name :- Atharva Kinikar
Div :- SE10
Batch :- F10
Roll NO :- 23241
*/


import java.util.Scanner;

public class App {
    public static void main(String[] args) throws
Exception {
        Scanner sc = new Scanner(System.in); //
creating object sc of Scanner class
        try {
            System.out.println("Enter number of
elements of array =>");
            int n = sc.nextInt();
            int arr[] = new int[n];
            System.out.println("Enter elements in
an array");
```

```java
            for (int i = 0; i < n; i++) //
entering elements in an array
            {
                System.out.print("Enter " + (i) +
" index Element: ");
                arr[i] = sc.nextInt();
            }
            System.out.println("Enter the array
index to display element present on that
position:");
            int i = sc.nextInt();
            System.out.println("Element Present:"
+ arr[i]);
            System.out.println();
            System.out.println("Enter two numbers
for Division"); // Entering numbers for division
            System.out.println("Enter Num 1:");
            int n1 = Integer.parseInt(sc.next());
            System.out.println("Enter Num 2:");
            int n2 = Integer.parseInt(sc.next());
            ;
            int a = n1 / n2;
            System.out.println("Division of " +
n1 + " and " + n2 + " is:" + a);
        } catch (NumberFormatException e) //
Exception is thrown when numbers are not enteres
        {

System.out.println("NumberFormatException
Occured!!!");
```

```java
        } catch (ArithmeticException e) // 
Division by 0 Exception thrown
        {
            System.out.println("Division by Zero 
not possible!!!");
        } catch (ArrayIndexOutOfBoundsException 
e) // Array index out of bound exception thrown
        {
            System.out.println("Array Index Out 
Of Bound!!!");
        }
        sc.close();
    }
}
```

PROBLEMS 6   OUTPUT   DEBUG CONSOLE   TERMINAL

```
PS C:\Users\kinikar\Desktop\P.I.C.T\SEM 3\OOP LAB\Assignments\assignmen
t 6> cd "c:\Users\kinikar\Desktop\P.I.C.T\SEM 3\OOP LAB\Assignments\ass
ignment 6\" ; if ($?) { javac App.java } ; if ($?) { java App }
Enter number of elements of array =>
Enter elements in an array
Enter 0 index Element: 1
Enter 1 index Element: 2
Enter 2 index Element: 4
Enter 3 index Element: 6
Enter the array index to display element present on that position:
5
Array Index Out Of Bound!!!
PS C:\Users\kinikar\Desktop\P.I.C.T\SEM 3\OOP LAB\Assignments\assignmen
t 6> cd "c:\Users\kinikar\Desktop\P.I.C.T\SEM 3\OOP LAB\Assignments\ass
ignment 6\" ; if ($?) { javac App.java } ; if ($?) { java App }
Enter number of elements of array =>
4
Enter elements in an array
Enter 0 index Element: 1
Enter 1 index Element: 2
Enter 2 index Element: 4
Enter 3 index Element: 6
Enter the array index to display element present on that position:
1
Element Present:2

Enter two numbers for Division
Enter Num 1:
20
Enter Num 2:
a
NumberFormatException Occured!!!
PS C:\Users\kinikar\Desktop\P.I.C.T\SEM 3\OOP LAB\Assignments\assignment 6> cd "c:\Users\kinikar\Desktop\P.I.C.T\SEM 3\OOP LAB\Assignments\assignment 6\" ; if ($?) { javac App.java } ; if ($?) { java App }
Enter number of elements of array =>
4
Enter elements in an array
Enter 0 index Element: 1
Enter 1 index Element: 2
Enter 2 index Element: 4
Enter 3 index Element: 6
Enter the array index to display element present on that position:
2
Element Present:4

Enter two numbers for Division
Enter Num 1:
20
Enter Num 2:
5
Division of 20 and 5 is:4
PS C:\Users\kinikar\Desktop\P.I.C.T\SEM 3\OOP LAB\Assignments\assignment 6> cd "c:\Users\kinikar\Desktop\P.I.C.T\SEM 3\OOP LAB\Assignments\assignment 6\" ; if ($?) { javac App.java } ; if ($?) { java App }
Enter number of elements of array =>
```

powers...
Code

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PROBLEMS 6   OUTPUT   DEBUG CONSOLE   TERMINAL

```
Enter the array index to display element present on that position:
1
Element Present:2

Enter two numbers for Division
Enter Num 1:
20
Enter Num 2:
a
NumberFormatException Occured!!!
PS C:\Users\kinikar\Desktop\P.I.C.T\SEM 3\OOP LAB\Assignments\assignment 6> cd "c:\Users\kinikar\Desktop\P.I.C.T\SEM 3\OOP LAB\Assignments\assignment 6\" ; if ($?) { javac App.java } ; if ($?) { java App }
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Element Present:4

Enter two numbers for Division
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Division of 20 and 5 is:4
PS C:\Users\kinikar\Desktop\P.I.C.T\SEM 3\OOP LAB\Assignments\assignment 6> cd "c:\Users\kinikar\Desktop\P.I.C.T\SEM 3\OOP LAB\Assignments\assignment 6\" ; if ($?) { javac App.java } ; if ($?) { java App }
Enter number of elements of array =>
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Enter elements in an array
Enter 0 index Element: 1
Enter 1 index Element: 2
Enter 2 index Element: 4
Enter 3 index Element: 6
Enter the array index to display element present on that position:
2
Element Present:4

Enter two numbers for Division
Enter Num 1:
20
Enter Num 2:
0
Division by Zero not possible!!!
PS C:\Users\kinikar\Desktop\P.I.C.T\SEM 3\OOP LAB\Assignments\assignment 6>
```

powers...
Code

⊗ 3 ⚠ 3   Atharva   CMake: [Debug]: Ready   No Kit Selected   Build [all]   ▷   Run CTest   Live Share   Ln 19, Col 71   Spaces: 4   UTF-8   LF   Java   Go Live   JavaSE-16   Prettier