OOPL Assignment No: 06 (COde)

```java
import java.util.*;
class Main
{
  static void zero ()
  {
      Scanner sc = new Scanner (System.in);
      int a, b;
      try
      {
      System.out.println ("Enter the two numbers to divide: ");
      a = sc.nextInt ();
      b = sc.nextInt ();
      System.out.println ("Division = " + a / b + "\n");
      }
      catch (ArithmeticException e)
      {
      System.out.println ("You can't Divide a number by zero \n" + e + "\n");
      }
  }
  static void array ()
  {
      Scanner sc = new Scanner (System.in);
      try
      {
      int n, r;
      System.out.println ("Enter the Length of Array \n");
```

```java
        n = sc.nextInt ();
        int ar[] = new int[n];
        for (int i = 0; i < n; i++)
    {
      System.out.println ("Enter elements here: \n");
      ar[i] = sc.nextInt ();
    }
        System.out.println ("This is your array: \n");
        for (int j = 0; j < n; j++)
    {
      System.out.print ("\t" + ar[j]);
    }
        System.out.println ("Enter the index you want to
access in array: \n");
        r = sc.nextInt ();
        System.out.println ("Array element = " + ar[r] + "\n");
        }
        catch (ArrayIndexOutOfBoundsException e)
        {
        System.out.println ("This is an Array Index Out Of
Bounds Exception \n" + e + "\n");
        }
  }
  static void format ()
  {
        Scanner sc = new Scanner (System.in);
        String a, b;
        try
        {
```

```java
        System.out.println ("Enter the two numbers to divide: \n");
        a = sc.next ();
        b = sc.next ();
        int x = Integer.parseInt (a);
        int y = Integer.parseInt (b);
        System.out.println ("Division = " + (x / y));
        }
        catch (NumberFormatException e)
        {
        System.out.println ("This is a number format exception. \n" + e + "\n");
        }
  }
  public static void main (String [] args)
  {
        zero ();
        array ();
        format ();
  }
}
```

OUTPUT

Enter the two numbers to divide:
22
11
Division = 2

Enter the Length of Array
2

Enter elements here:
69

Enter elements here:
420

This is your array:

    69   420

Enter the index you want to access in array:

69

This is an Array Index Out Of Bounds Exception
java.lang.ArrayIndexOutOfBoundsException: Index 69 out of bounds for length 2

Enter the two numbers to divide:

22
Two

This is a number format exception.
java.lang.NumberFormatException: For input string: "Two"

Program finished with exit code 0
Press ENTER to exit the console.