```java
//ASSIGEMENT NO-6
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//ROLL NO:07


package trycatch;
import java.util.*;
public class TryCatchDemo {

        public static void main(String[] args) {
                int a[]={20,30,40};
                int result=0;
                int num1,num2;
                Scanner s=new Scanner(System.in);
                try
                {
                        System.out.println("enter first number:");
                        num1=Integer.parseInt(s.next());
                        System.out.println("enter  second number:");
                        num2=Integer.parseInt(s.next());
                        result=num1/num2;
                        System.out.println("result is:"+result);
                        for(int i=2;i>0;i++)
                        {
                                System.out.println("the value of array  is :"+a[i]);

                        }
                }
                catch(NumberFormatException e)
                {
                        System.out.println(e);
                }
        catch(ArithmeticException e)
        {
                System.out.println(e);
        }
        catch(ArrayIndexOutOfBoundsException e)
        {
                System.out.println(e);
        }

        }
}


//OUTPUT:
//1..NumberFormatException
/*enter first number:
a
java.lang.NumberFormatException: For input string: "a"
```

```
//2..ArithmeticException
enter first number:
1
enter  second number:
0
java.lang.ArithmeticException: / by zero



//3.ArrayIndexOutOfBoundsException

enter first number:
1
enter  second number:
2
result is:0
the value of array  is :40
java.lang.ArrayIndexOutOfBoundsException: Index 3 out of bounds for length 3


*/
```