

6. Write a program in Java to demonstrate exception handling

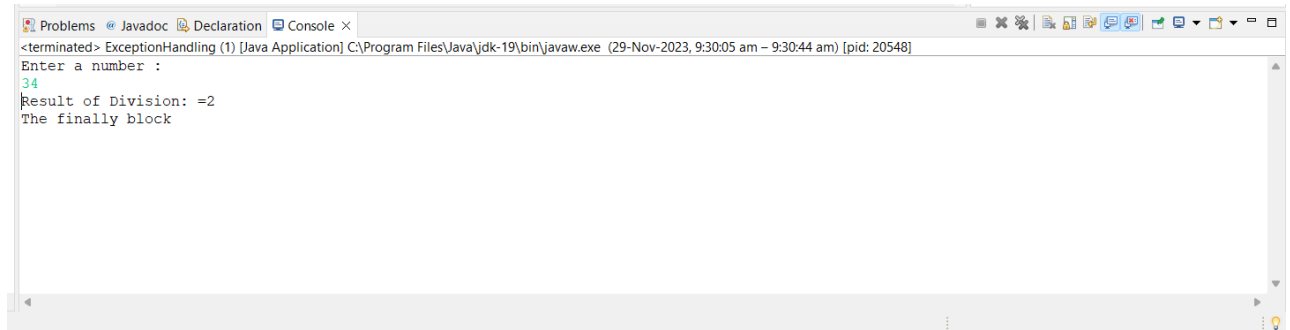
```
package AssistedPracticeProject;

import java.util.Scanner;

public class ExceptionHandling {
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter a number : ");

        try {
            int num=sc.nextInt();
            int result=75/num;
            System.out.println("Result of Division: "+result);
        } catch (ArithmeticException e) {
            System.out.println("Exception caught:
"+e.getMessage());
        } catch (Exception e) {
            System.out.println("Exception caught:
"+e.getMessage());
        } finally {
            System.out.println("The finally block");
            sc.close();
        }
    }
}
```

Output:



The screenshot shows a Java IDE window with a console tab. The console output is as follows:

```
<terminated> ExceptionHandling (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (29-Nov-2023, 9:30:05 am – 9:30:44 am) [pid: 20548]
Enter a number :
34
Result of Division: =2
The finally block
```

Output:



The screenshot shows a Java IDE window with a console tab. The console output is as follows:

```
<terminated> ExceptionHandling (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (29-Nov-2023, 9:32:29 am – 9:32:32 am) [pid: 20528]
Enter a number :
0
Exception caught: / by zero
The finally block
```