

Package Explorer

- > Annotation [Desktop master]
- > Array
- > assign
- > Exception\_Hendling\_ [Desktop master]
  - > src
    - > Exception\_hendling
      - Intro.java
      - module-info.java
  - > JRE System Library [jdk-17.0.5]
  - > ExpressionLambda
  - > Java\_11\_Features [Desktop master]
  - > jdbc [Desktop master]
  - > lambda [Desktop master]
  - > String\_StringBuffer [Desktop master]

Assignment1Q9.java Intro.java

```
1 package Exception_hendling;
2
3 import java.util.Scanner;
4
5 public class Intro {
6
7     public static void main(String[] args) {
8         System.out.println("---main method is start---");
9         Scanner sc=new Scanner(System.in);
10        System.out.println("Enter dividant Value:");
11        int a=sc.nextInt();
12        System.out.println("Enter Divisor Value:");
13        int b=sc.nextInt();
14        int result=a/b;
15        System.out.println("The result is:"+result);
16    }
17
18 }
19
```

Problems Javadoc Declaration Console

<terminated> Intro [Java Application] C:\Program Files\Java\jdk-17.0.5\bin\javaw.exe (21-Feb-2023, 8:27:11 pm – 8:27:22 pm) [pid: 8236]

```
---main method is start---
Enter dividant Value:
15
Enter Divisor Value:
0
Exception in thread "main" java.lang.ArithmeticException: / by zero
    at Exception_Hendling_/Exception_hendling.Intro.main(Intro.java:14)
```

Activate Windows  
Go to Settings to activate Windows.

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  - > lambda [Desktop master]
  - > String\_StringBuffer [Desktop master]

Assignment1Q9.java Intro.java

```
1 package Exception_hendling;
2
3 import java.util.Scanner;
4
5 public class Intro {
6
7     public static void main(String[] args) {
8         try {
9             System.out.println("---main method is start---");
10            Scanner sc=new Scanner(System.in);
11            System.out.println("Enter dividant Value:");
12            int a=sc.nextInt();
13            System.out.println("Enter Divisor Value:");
14            int b=sc.nextInt();
15            int result=a/b;
16            System.out.println("The result is:"+result);
17        } catch (Exception e) {
18            e.printStackTrace();
19        }
20        System.out.println("mian methos is end");
21    }
22
23 }
24
```

Problems Javadoc Declaration Console

<terminated> Intro [Java Application] C:\Program Files\Java\jdk-17.0.5\bin\javaw.exe (21-Feb-2023, 8:34:41 pm - 8:34:54 pm) [pid: 7528]

```
---main method is start---
Enter dividant Value:
15
Enter Divisor Value:
0
java.lang.ArithmeticException: / by zero
mian methos is end
    at Exception_Hendling_/Exception_hendling.Intro.main(Intro.java:15)
```

Activate Windows  
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Package Explorer X Assignment1Q9.java Intro.java Try\_Catch.java X Try\_catch1.java

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- > ExpressionLambda
- > Java\_11\_Features [Desktop master]
- > jdbc [Desktop master]
- > lambda [Desktop master]
- > String\_StringBuffer [Desktop master]

```
1 package Exception_hendling;
2
3 public class Try_Catch {
4
5     public static void main(String[] args) {
6         int a=0;
7         int b=7/a;
8         System.out.println("After Exception Statement");
9
10    }
11
12 }
13
```

Problems @ Javadoc Declaration Console X

&lt;terminated&gt; Try\_Catch [Java Application] C:\Program Files\Java\jdk-17.0.5\bin\javaw.exe (21-Feb-2023, 10:04:12 pm – 10:04:14 pm) [pid: 7100]

Exception in thread "main" [java.lang.ArithmeticException: / by zero](#)  
at Exception\_Hendling\_/Exception\_hendling.Try\_Catch.main([Try\\_Catch.java:7](#))

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8:57:178



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10:04 PM

21-02-2023





- > Annotation [Desktop master]
- > Array
- > assign
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- > ExpressionLambda
- > Java\_11\_Features [Desktop master]
- > jdbc [Desktop master]
- > lambda [Desktop master]
- > String\_StringBuffer [Desktop master]

```
1 package Exception_hendling;
2
3 public class Try_catch1 {
4
5     public static void main(String[] args) {
6         try {
7             int a=0;
8             int b=7/a;
9             System.out.println("After Exception Statement");
10        } catch (ArithmeticException e) {
11            System.out.println("Division By zero");
12            e.printStackTrace();
13        }
14        System.out.println("After Catch Block");
15
16
17    }
18
19 }
20
```

<terminated> Try\_catch1 [Java Application] C:\Program Files\Java\jdk-17.0.5\bin\javaw.exe (21-Feb-2023, 10:04:25 pm - 10:04:29 pm) [pid: 5932]

Division By zero

[java.lang.ArithmeticException](#): / by zero

at Exception\_Hendling\_/Exception\_hendling.Try\_catch1.main(Try\_catch1.java:8)

After Catch Block

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14 : 49 : 346



Package Explorer

- > Annotation [Desktop master]
- > Array
- > assign
- > Exception\_Hendling\_ [Desktop master]
  - > src
    - > Exception\_hendling
      - Intro.java
      - Multipal\_Catch.java
      - Try\_Catch.java
      - Try\_catch1.java
      - module-info.java
- > JRE System Library [jdk-17.0.5]
- > ExpressionLambda
- > Java\_11\_Features [Desktop master]
- > jdbc [Desktop master]
- > lambda [Desktop master]
- > String\_StringBuffer [Desktop master]

```
1 package Exception_hendling;
2
3
4 public class Multipal_Catch {
5     private void claculate(int i) {
6         int[] a= {0};
7         try {
8             int b=7/a[i];
9         } catch (ArithmeticException e) {
10             e.printStackTrace();
11         }
12         catch (ArrayIndexOutOfBoundsException e) {
13             e.printStackTrace();
14         }
15     }
16
17     public static void main(String[] args) {
18         Multipal_Catch mc=new Multipal_Catch();
19         mc.claculate(0);
20         mc.claculate(1);
21     }
22
23 }
24
```

Problems @ Javadoc Declaration Console

<terminated> Multipal\_Catch [Java Application] C:\Program Files\Java\jdk-17.0.5\bin\javaw.exe (21-Feb-2023, 10:15:50 pm – 10:15:55 pm) [pid: 5920]

```
java.lang.ArithmeticException: / by zero
    at Exception_Hendling_/Exception_hendling.Multipal_Catch.claculate(Multipal_Catch.java:8)
    at Exception_Hendling_/Exception_hendling.Multipal_Catch.main(Multipal_Catch.java:19)
java.lang.ArrayIndexOutOfBoundsException: Index 1 out of bounds for length 1
    at Exception_Hendling_/Exception_hendling.Multipal_Catch.claculate(Multipal_Catch.java:8)
    at Exception_Hendling_/Exception_hendling.Multipal_Catch.main(Multipal_Catch.java:20)
```

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20:20:413

Package Explorer

- > Annotation [Desktop master]
- > Array
- > assign
- > Exception\_Hendling\_ [Desktop master]
  - > src
    - > Exception\_hendling
      - Finally\_Block.java
      - Intro.java
      - Multipal\_Catch.java
      - Try\_Catch.java
      - Try\_catch1.java
      - module-info.java
  - > JRE System Library [jdk-17.0.5]
  - > ExpressionLambda
  - > Java\_11\_Features [Desktop master]
  - > jdbc [Desktop master]
  - > lambda [Desktop master]
  - > String\_StringBuffer [Desktop master]

```
1 package Exception_hendling;
2
3 public class Finally_Block {
4
5     public static void main(String[] args) {
6         int i=getvalue();
7         System.out.println("value of i="+i);
8     }
9     static int getvalue() {
10        try {
11            System.out.println("in try block");
12            return 10;
13        } finally {
14            System.out.println("in finally block");
15            return 20;
16        }
17    }
18
19 }
20
```

Problems Javadoc Declaration Console

<terminated> Finally\_Block [Java Application] C:\Program Files\Java\jdk-17.0.5\bin\javaw.exe (21-Feb-2023, 10:23:52 pm – 10:23:55 pm) [pid: 7748]

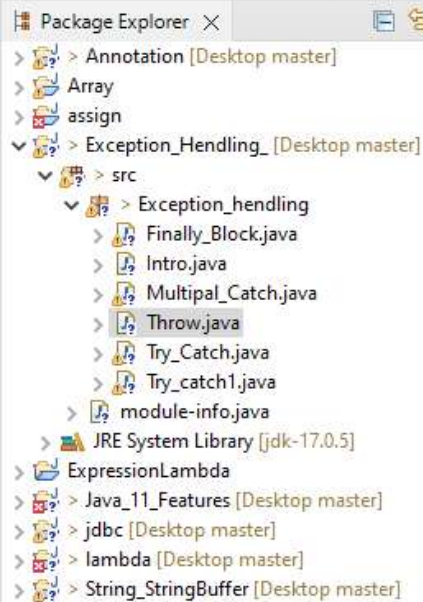
in try block  
in finally block  
value of i=20

Writable

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20 : 1 : 352





```
1 public class Throw {
2
3     public static void main(String[] args) {
4         Throw t=new Throw();
5         try {
6             t.display();
7         } catch (RuntimeException e) {
8             System.out.println("Exception caught in catch block of main....");
9             System.out.println(e.getMessage());
10            e.printStackTrace();
11        }
12    }
13
14    public void display() {
15        try {
16            throw new RuntimeException("Runtime Exception Occure...");
17        } catch (RuntimeException e) {
18            System.out.println("Exception is caught in catch block of display...");
19            throw e;
20        }
21    }
22 }
23
24
25
26
```

Problems @ Javadoc Declaration Console X

&lt;terminated&gt; Throw [Java Application] C:\Program Files\Java\jdk-17.0.5\bin\javaw.exe (21-Feb-2023, 10:32:22 pm - 10:32:27 pm) [pid: 8576]

Exception is caught in catch block of display...

Exception caught in catch block of main....

Runtime Exception Occure...

[java.lang.RuntimeException](#): Runtime Exception Occure...

at Exception\_Hendling\_/Exception\_hendling.Throw.display(Throw.java:18)

at Exception\_Hendling\_/Exception\_hendling.Throw.main(Throw.java:8)

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11:46:289



Package Explorer | JUnit | example-mockito/pom.xml | TodoServices.java | TodoBusinessImpl.java | TodoBusinessImpltest.java | \*all\_in\_one.java

Annotation [Desktop master]  
Array  
assign  
Collection [Desktop master]  
example-mockito  
src/main/java  
src/main/resources  
src/test/java  
src/test/resources  
JRE System Library [J2SE-1.5]  
Maven Dependencies  
JUnit 4  
src  
target  
pom.xml  
Exception\_Hendling\_ [Desktop master]  
src  
Exception\_hendling  
all\_in\_one.java  
Finally\_Block.java  
Intro.java  
Multipal\_Catch.java  
Throw.java  
Try\_Catch.java  
Try\_catch1.java  
module-info.java  
JRE System Library [jdk-17.0.5]  
ExpressionLambda  
Generics [Desktop master]  
Java\_11\_Features [Desktop master]  
jdbc [Desktop master]  
JUnit5 [Desktop master]  
lambda [Desktop master]

```
1 package Exception_hendling;  
2 import java.util.*;  
3 import java.io.IOException;  
4 public class all_in_one {  
5     public static void main(String[] args) throws Exception {  
6         /* Scanner sc = null;  
7         System.out.println("Main method start");  
8         try{  
9             sc = new Scanner(System.in);  
10            System.out.println("Enter Divided Number :");  
11            int num = sc.nextInt();  
12  
13            System.out.println("Enter Dividend Number :");  
14            int divisor = sc.nextInt();  
15            int result = num/divisor;  
16            System.out.println("Result is :"+result);  
17        }catch(Exception e){  
18            e.printStackTrace();  
19        }finally{  
20            if(sc != null){  
21                sc.close();  
22            }  
23        }  
24        System.out.println("Main method end");  
25        /*  
26  
27        try{  
28            int a =0;  
29            int b = 7 / a;  
30            System.out.println("After Exception");  
31  
32        }catch(ArithmeticException ex){  
33            System.out.println(" Divided by zero ");  
34            ex.printStackTrace();  
35        }  
36    }  
37 }
```

Problems | Javadoc | Declaration | Console |  
<terminated> all\_in\_one [Java Application] C:\Program Files\Java\jdk-17.0.5\bin\javaw.exe (02-Mar-2023, 11:51:31 am – 11:51:37 am) [pid: 10596]

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141 : 1 : 3947



Package Explorer | JUnit | example-mockito/pom.xml | TodoServices.java | TodoBusinessImpl.java | TodoBusinessImpltest.java | \*all\_in\_one.java

Annotation [Desktop master]  
Array  
assign  
Collection [Desktop master]  
example-mockito  
src/main/java  
src/main/resources  
src/test/java  
src/test/resources  
JRE System Library [J2SE-1.5]  
Maven Dependencies  
JUnit 4  
src  
target  
pom.xml  
Exception\_Hendling\_ [Desktop master]  
src  
Exception\_hendling  
all\_in\_one.java  
Finally\_Block.java  
Intro.java  
Multipal\_Catch.java  
Throw.java  
Try\_Catch.java  
Try\_catch1.java  
module-info.java  
JRE System Library [jdk-17.0.5]  
ExpressionLambda  
Generics [Desktop master]  
Java\_11\_Features [Desktop master]  
jdbc [Desktop master]  
JUnit5 [Desktop master]  
lambda [Desktop master]

```
22     }  
23     }  
24     System.out.println("Main method end");  
25     */  
26     /*  
27     try{  
28         int a =0;  
29         int b = 7 / a;  
30         System.out.println("After Exception");  
31     }  
32     }catch(ArithmeticException ex){  
33         System.out.println(" Divided by zero ");  
34         ex.printStackTrace();  
35     }  
36     System.out.println("After catch block ");  
37     */  
38     /*  
39     int b =0;  
40     ArrayList<Integer> list = new ArrayList<>();  
41     list.add(2);  
42     list.add(3);  
43     list.add(0);  
44     list.add(6);  
45     list.add(10);  
46     for(Integer i:list){  
47         try{  
48             System.out.println("Divided by "+ i);  
49             b = 30/i;  
50         }catch(ArithmeticException ex){  
51             System.out.println(" Divided by Zero");  
52             b = 0;  
53             ex.printStackTrace();  
54         }  
55     }  
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Problems | Javadoc | Declaration | Console |  
<terminated> all\_in\_one [Java Application] C:\Program Files\Java\jdk-17.0.5\bin\javaw.exe (02-Mar-2023, 11:51:31 am – 11:51:37 am) [pid: 10596]  
Terminated method

Package Explorer | JUnit | example-mockito/pom.xml | TodoServices.java | TodoBusinessImpl.java | TodoBusinessImpltest.java | \*all\_in\_one.java X

Annotation [Desktop master]  
Array  
assign  
Collection [Desktop master]  
example-mockito  
src/main/java  
src/main/resources  
src/test/java  
src/test/resources  
JRE System Library [J2SE-1.5]  
Maven Dependencies  
JUnit 4  
src  
target  
pom.xml  
Exception\_Hendling\_ [Desktop master]  
src  
Exception\_hendling  
all\_in\_one.java  
Finally\_Block.java  
Intro.java  
Multipal\_Catch.java  
Throw.java  
Try\_Catch.java  
Try\_catch1.java  
module-info.java  
JRE System Library [jdk-17.0.5]  
ExpressionLambda  
Generics [Desktop master]  
Java\_11\_Features [Desktop master]  
jdbc [Desktop master]  
JUnit5 [Desktop master]  
lambda [Desktop master]

```
58      System.out.println(" After for loop");
59      */
60
61      /*
62
63      //// Multiple catch block inside try block
64
65      ExceptionHandlingAssign exc = new ExceptionHandlingAssign();
66      exc.catchdemo(0);
67      exc.catchdemo(2); */
68      //// Try Catch and finally block statement;
69
70      // int i = getValue();
71      //System.out.println(i);
72      /*
73      //// Throw Exception ////
74      ExceptionHandlingAssign exc = new ExceptionHandlingAssign();
75      try{
76          exc.display();
77      }catch(RuntimeException ex){
78          System.out.println("Exception caught in catch block main");
79          System.out.println(ex.getMessage());
80          ex.printStackTrace();
81      }
82      */
83
84      //// Throws Exception
85      try{
86          Filecontent();
87      }catch(IOException ex){
88          System.out.println(ex.getMessage());
89          // ex.printStackTrace();
90
91      }
```

Problems | Javadoc | Declaration | Console X

<terminated> all\_in\_one [Java Application] C:\Program Files\Java\jdk-17.0.5\bin\javaw.exe (02-Mar-2023, 11:51:31 am – 11:51:37 am) [pid: 10596]

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141 : 1 : 3947



Package Explorer | JUnit | example-mockito/pom.xml | TodoServices.java | TodoBusinessImpl.java | TodoBusinessImpltest.java | \*all\_in\_one.java

Annotation [Desktop master]  
Array  
assign  
Collection [Desktop master]  
example-mockito  
src/main/java  
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JRE System Library [J2SE-1.5]  
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src  
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all\_in\_one.java  
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JRE System Library [jdk-17.0.5]  
ExpressionLambda  
Genrics [Desktop master]  
Java\_11\_Features [Desktop master]  
jdbc [Desktop master]  
JUnit5 [Desktop master]  
lambda [Desktop master]

```
82  */
83
84  /// Throws Exception
85  try{
86      Filecontent();
87  }catch(IOException ex){
88      System.out.println(ex.getMessage());
89      // ex.printStackTrace();
90
91  }
92
93  }
94
95  static void Filecontent() throws Exception{
96      System.out.println("In display method");
97      throw new IOException("File I/O exception has occurred");
98  }
99
100  /*
101  private void display(){
102      try{
103          throw new RuntimeException("Runtime Exception occurred");
104      }catch(RuntimeException ex){
105          System.out.println("Exception caught in catch block display method");
106          throw ex;
107      }
108  }
109  */
110
111  /*
112  static int getValue(){
113      try{
114          System.out.println("In try block ");
115  }
```

Problems | Javadoc | Declaration | Console |

<terminated> all\_in\_one [Java Application] C:\Program Files\Java\jdk-17.0.5\bin\javaw.exe (02-Mar-2023, 11:51:31 am – 11:51:37 am) [pid: 10596]

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Package Explorer | JUnit | example-mockito/pom.xml | TodoServices.java | TodoBusinessImpl.java | TodoBusinessImpltest.java | \*all\_in\_one.java X

> Annotation [Desktop master]  
> Array  
> assign  
> Collaction [Desktop master]  
▼ example-mockito  
  > src/main/java  
  > src/main/resources  
  > src/test/java  
  > src/test/resources  
  > JRE System Library [J2SE-1.5]  
  > Maven Dependencies  
  > JUnit 4  
  > src  
  > target  
  > pom.xml  
▼ Exception\_Hendling\_ [Desktop master]  
  ▼ src  
    > Exception\_hendling  
      > all\_in\_one.java  
      > Finally\_Block.java  
      > Intro.java  
      > Multipal\_Catch.java  
      > Throw.java  
      > Try\_Catch.java  
      > Try\_catch1.java  
      > module-info.java  
  > JRE System Library [jdk-17.0.5]  
> ExpressionLambda  
> Genrics [Desktop master]  
> Java\_11\_Features [Desktop master]  
> jdbc [Desktop master]  
> JUnit5 [Desktop master]  
> lambda [Desktop master]

```
109     }  
110     }  
111     */  
112     /*  
113     static int getValue(){  
114         try{  
115             System.out.println("In try block ");  
116             throw new RuntimeException();  
117         }catch(RuntimeException exc ){  
118             System.out.println("Exception caught in catch block ");  
119             return 30;  
120         }  
121         finally{  
122             System.out.println("In finally block ");  
123             return 40;  
124         }  
125     }  
126     */  
127     /*  
128     private void catchdemo(int i){  
129         int a[] = {0};  
130         try{  
131             int b = 7/a[i];  
132         }catch(ArithmeticException ar){  
133             ar.printStackTrace();  
134         }catch(ArrayIndexOutOfBoundsException ex){  
135             ex.printStackTrace();  
136         }  
137     }  
138     */  
139 }  
140 */  
141  
142
```

Problems | Javadoc | Declaration | Console X

<terminated> all\_in\_one [Java Application] C:\Program Files\Java\jdk-17.0.5\bin\javaw.exe (02-Mar-2023, 11:51:31 am – 11:51:37 am) [pid: 10596]

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Package Explorer

- > Annotation [Desktop master]
- > Array
- > assign
- > Collaction [Desktop master]
- example-mockito
  - > src/main/java
  - > src/main/resources
  - > src/test/java
  - > src/test/resources
  - > JRE System Library [J2SE-1.5]
  - > Maven Dependencies
  - > JUnit 4
  - > src
  - > target
  - > pom.xml
- Exception\_Hendling\_ [Desktop master]
  - > src
    - Exception\_hendling
      - all\_in\_one.java
      - Finally\_Block.java
      - Intro.java
      - Multipal\_Catch.java
      - Throw.java
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      - Try\_catch1.java
    - module-info.java
  - > JRE System Library [jdk-17.0.5]
  - > ExpressionLambda
  - > Genrics [Desktop master]
  - > Java\_11\_Features [Desktop master]
  - > jdbc [Desktop master]
  - > JUnit5 [Desktop master]
  - > lambda [Desktop master]

example-mockito/pom.xml

```
109     }
110   }
111   */
112   /*
113   static int getValue(){
114       try{
115           System.out.println("In try block ");
116           throw new RuntimeException();
117       }catch(RuntimeException exc ){
118           System.out.println("Exception cougth in catch block ");
119           return 30;
120       }
121   }finally{
122       System.out.println("In finally block ");
123       return 40;
124   }
125   */
126
127   /*
128   private void catchdemo(int i){
129       int a[] = {0};
130       try{
131           int b = 7/a[i];
132       }catch(ArithmeticException ar){
133           ar.printStackTrace();
134       }catch(ArrayIndexOutOfBoundsException ex){
```

Problems @ Javadoc Declaration Console

<terminated> all\_in\_one [Java Application] C:\Program Files\Java\jdk-17.0.5\bin\javaw.exe (02-Mar-2023, 11:51:31 am – 11:51:37 am) [pid: 10596]

In display method  
File I/O exception has occurred

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