

## Session 18 throw

Thursday, August 25, 2022 6:40 PM

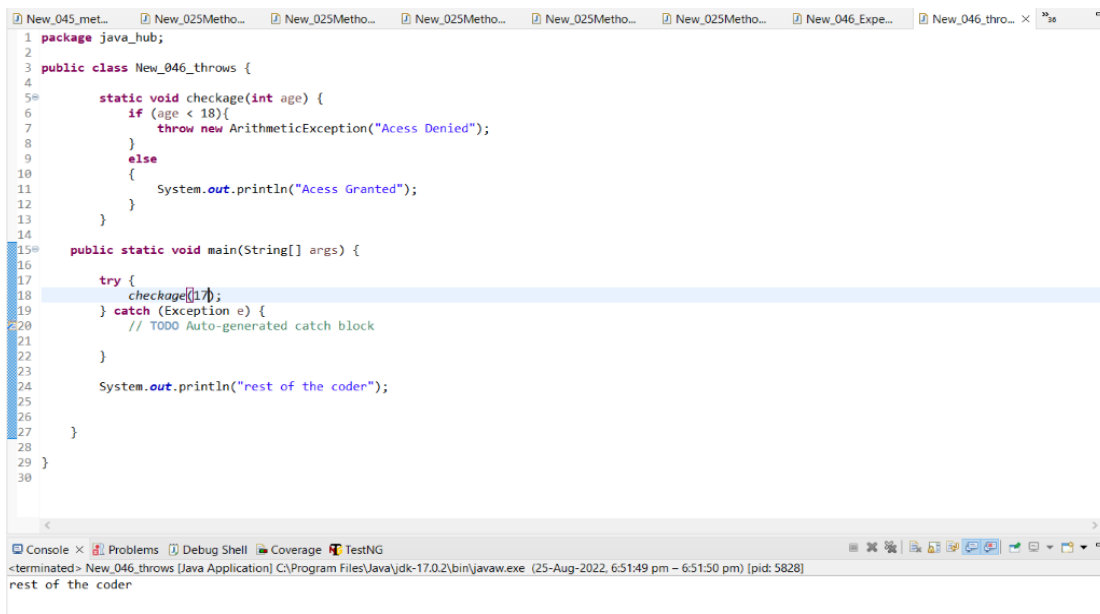
### Throw Keyword

The throw keyword is used to create a custom error. It is Used to throw an single exception for a method.

Syntax: `throw new exception_class("error message");`

#### Example:

Throw an exception if age is below 18 (print "Access denied"). If age is 18 or older, print "Access granted":



```

1 package java_hub;
2
3 public class New_046_throws {
4
5     static void checkage(int age) {
6         if (age < 18){
7             throw new ArithmeticException("Acess Denied");
8         }
9         else
10        {
11            System.out.println("Access Granted");
12        }
13    }
14
15    public static void main(String[] args) {
16
17        try {
18            checkage(17);
19        } catch (Exception e) {
20            // TODO Auto-generated catch block
21
22        }
23
24        System.out.println("rest of the coder");
25
26    }
27
28 }
29
30

```

Console × Problems Debug Shell Coverage TestNG  
 <terminated> New\_046\_throws [Java Application] C:\Program Files\Java\jdk-17.0.2\bin\javaw.exe (25-Aug-2022, 6:51:49 pm - 6:51:50 pm) [pid: 5828]  
 rest of the coder

### Throws keywords

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The throws keyword indicates what exception type may be thrown by a method. It gives information to the programmer that there may occur exception in the method , so it is better to do exception handling in the code so that normal flow can be maintained.

#### Syntax:

`return_type method_name() throws exception_class_name{`

```
3 import java.io.IOException;
4
5 public class New_046_throws {
6
7     static void checkage(int age) throws ArithmeticException, IOException {
8
9         if (age < 18) {
10             throw new ArithmeticException("Access Denied");
11         }
12         else
13         {
14             System.out.println("Access Granted");
15         }
16     }
17
18     public static void main(String[] args) {
19
20         try {
21             checkage(97);
22         } catch (Exception e) {
23
24             System.out.println(e.toString());
25         }
26     }
27 }
```

Problems Javadoc Declaration Console Coverage  
terminated> New\_046\_throws [Java Application] C:\Program Files\Java\jdk-17.0.2\bin\javaw.exe (04-Mar-2023, 5:10:07 pm - 5:10:08 pm) [pid: 844]  
Access Granted  
rest of the coder