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This is why it is important to handle exceptions. Here's a list of different approaches to handle exceptions in Java.

- try...catch block
- finally block
- throw and throws keyword

## 1. Java try...catch block

The [try-catch \(/java-programming/try-catch\)](#) block is used to handle exceptions in Java. Here's the syntax of `try...catch` block:

```
try {
    // code
}
catch(Exception e) {
    // code
}
```

Here, we have placed the code that might generate an exception inside the `try` block. Every `try` block is followed by a `catch` block.

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```
}
```

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## Output

```
ArithmaticException => / by zero
```

In the example, we are trying to divide a number by `0`. Here, this code generates an exception.

To handle the exception, we have put the code, `5 / 0` inside the `try` block. Now when an exception occurs, the rest of the code inside the `try` block is skipped.

The `catch` block catches the exception and statements inside the catch block is executed.

If none of the statements in the `try` block generates an exception, the `catch` block is skipped.

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The basic syntax of `finally` block is:

```
try {  
    //code  
}  
catch (ExceptionType1 e1) {  
    // catch block  
}  
finally {  
    // finally block always executes  
}
```

If an exception occurs, the `finally` block is executed after the `try...catch` block. Otherwise, it is executed after the try block. For each `try` block, there can be only one `finally` block.

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## Output

```
ArithmaticException => / by zero
This is the finally block
```

In the above example, we are dividing a number by **0** inside the `try` block. Here, this code generates an `ArithmaticException`.

The exception is caught by the `catch` block. And, then the `finally` block is executed.

**Note:** It is a good practice to use the `finally` block. It is because it can include important cleanup codes like,

- code that might be accidentally skipped by return, [continue](#) ([/java-programming/continue-statement](#)) or [break](#) ([/java-programming/break-statement](#))
- closing a file or connection

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```
}
```

```
public static void main(String[] args) {
    divideByZero();
}
```

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## Output

```
Exception in thread "main" java.lang.ArithmaticException: Trying to divide by 0
at Main.divideByZero(Main.java:5)
at Main.main(Main.java:9)
```

In the above example, we are explicitly throwing the `ArithmaticException` using the `throw` keyword.

Similarly, the `throws` keyword is used to declare the type of exceptions that might occur within the method. It is used in the method declaration.

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```
        System.out.println(e);
    }
}
}
```

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## Output

`java.io.FileNotFoundException: test.txt (The system cannot find the file specified)`

When we run this program, if the file **test.txt** does not exist, `FileNotFoundException` throws a `FileNotFoundException` which extends the `IIOException` class.

The `findFile()` method specifies that an `IIOException` can be thrown. The `main()` method calls this method and handles the exception if it is thrown.

If a method does not handle exceptions, the type of exceptions that may occur within it must be specified in the `throws` clause.

To learn more, visit [Java throw and throws](#) (/java-programming/throw-throws).

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