## **Exception Handling**

The **Exception Handling** is one of the powerful *mechanism to handle the runtime errors* so that the normal flow of the application can be maintained.

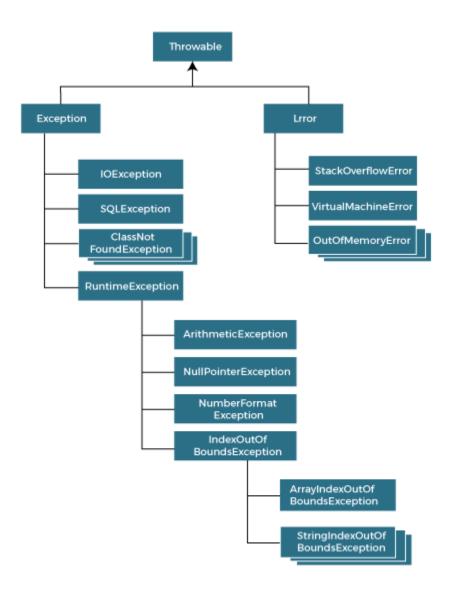
In this tutorial, we will learn about Java exceptions, it's types, and the difference between checked and unchecked exceptions.

## Advantage of Exception Handling

The core advantage of exception handling is **to maintain the normal flow of the application**. An exception normally disrupts the normal flow of the application; that is why we need to handle exceptions. Let's consider a scenario:

```
    statement 1;
    statement 2;
    statement 3;
    statement 4;
    statement 5;//exception occurs
    statement 6;
    statement 7;
    statement 8;
    statement 9;
    statement 10;
```

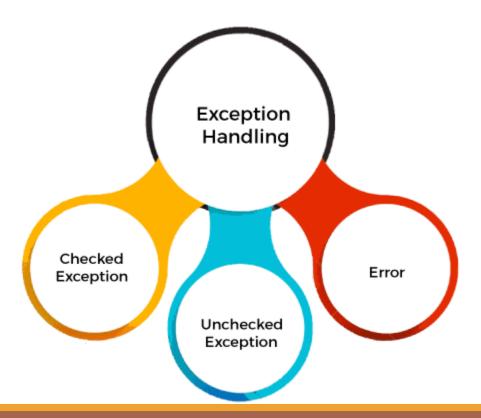
Suppose there are 10 statements in a Java program and an exception occurs at statement 5; the rest of the code will not be executed, i.e., statements 6 to 10 will not be executed. However, when we perform exception handling, the rest of the statements will be executed. That is why we use exception handling



## Types of Exceptions

There are mainly two types of exceptions: checked and unchecked. An error is considered as the unchecked exception. However, according to Oracle, there are three types of exceptions namely:

- 1.Checked Exception
- 2.Unchecked Exception
- 3.Error



## **Exception Handling Example**

Let's see an example of Java Exception Handling in which we are using a try-catch statement to handle the exception.

JavaExceptionExample.java

1.public class JavaExceptionExample{
2. public static void main(String args[]){
3. try{
4. //code that may raise exception
5. int data=100/0;
6. }catch(ArithmeticException e){System.out.println(e);}
7. //rest code of the program
8. System.out.println("rest of the code...");
9. }
10.}