Exceptions in Java

All types of errors or exceptions, capable of being the object of **catch** blocks, **throws** clauses, or **throw** statements.

**Object**

All types of exceptions capable of being produced upon execution. It is not necessary to handle these (unchecked exceptions).

**StringIndexOutOfBoundsException**

**ArrayIndexOutOfBoundsException**

**NumberFormatException**

**IllegalArgumentException**

**...**

**ArithmeticException**

**NullPointerException**

**ClassCastException**

**RuntimeException**

**IndexOutOfBoundsException**

All types of exceptions that should be handled (checked exceptions).

All types of serious errors.

It is preferable for these not to be captured, and so it is not necessary to handle them (unchecked exceptions).

**Error**

**Exception**

**IOException**

**...**

**SQLException**

**...**

**VirtualMachineError**

**IOError**

**ThreadDeath**

**Throwable**