

Exception

Checked Exception

- The exceptions which are checked by compiler at compile time of program.
- These exceptions can be handled at compile using try catch block or throws keyword other will compiler give error.
- Eg-
`ClassNotFoundException`, `IOException`, `SQLException`, `InterruptedException`

Unchecked Exception

- In Java, an unchecked exception, also known as a runtime exception, is an exception that is not checked at compile time by the compiler.
- These exceptions are typically caused by programming errors such as logical flaws, accessing an invalid array index, attempting to divide by zero, or using a null object reference
- Since they are not enforced by the compiler, developers are not required to catch or declare them using a throws clause.
- Unchecked exceptions are subclasses of the `RuntimeException` class or the `Error` class and its subclasses.
- eg-**`ArithmeticException`** (e.g., division by zero), **`NullPointerException`** (e.g., calling a method on a null object), and **`ArrayIndexOutOfBoundsException`**

Exception Hierarchy

