

# CORE JAVA

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## Basics of Java

- Java - What, Where and Why? - <https://www.javatpoint.com/java-tutorial>
- History and Features of Java - <https://www.javatpoint.com/history-of-java>
- Internals of Java Program - <https://www.javatpoint.com/internal-details-of-hello-java-program>
- Difference between JDK,JRE and JVM - <https://www.javatpoint.com/difference-between-jdk-jre-and-jvm>
- Internal Details of JVM - <https://www.javatpoint.com/internal-details-of-jvm> ;;;
- video link - [https://www.youtube.com/watch?v=uWYPVz\\_i7W4](https://www.youtube.com/watch?v=uWYPVz_i7W4)
- Variable and Data Type - <https://www.javatpoint.com/variable-datatype>
- Naming Convention - <https://www.javatpoint.com/java-naming-conventions>

## OOPS Concepts

- Advantage of OOPs - <https://www.javatpoint.com/java-oops-concepts>
- Object and Class - <https://www.javatpoint.com/object-and-class-in-java>
- Method Overloading - <https://www.javatpoint.com/method-overloading-in-java>
- Constructor - <https://www.javatpoint.com/java-constructor>
- static variable, method and block - <https://www.javatpoint.com/static-keyword-in-java>
- this keyword - <https://www.javatpoint.com/this-keyword>
- Inheritance (IS-A) - <https://www.javatpoint.com/inheritance-in-java>
- Aggregation and Composition(HAS-A) - <https://www.javatpoint.com/aggregation-in-java>
- Method Overriding - <https://www.javatpoint.com/method-overriding-in-java>
- Covariant Return Type - <https://www.javatpoint.com/covariant-return-type>
- super keyword - <https://www.javatpoint.com/super-keyword>
- final keyword - <https://www.javatpoint.com/final-keyword>
- Runtime Polymorphism - <https://www.javatpoint.com/runtime-polymorphism-in-java>
- //static and Dynamic binding - <https://www.javatpoint.com/static-binding-and-dynamic-binding>
- Abstract class and Interface - <https://www.javatpoint.com/abstract-class-in-java>
- Downcasting with instanceof operator - <https://www.javatpoint.com/downcasting-with-instanceof-operator>
- Package and Access Modifiers - <https://www.javatpoint.com/package>
- Encapsulation - <https://www.javatpoint.com/encapsulation>
- Object class - <https://www.javatpoint.com/object-class>
- Java Array - <https://www.javatpoint.com/array-in-java>
- Call By Value and Call By Reference - <https://www.javatpoint.com/call-by-value-and-call-by-reference-in-java>

- Wrapper CClass - <https://www.javatpoint.com/wrapper-class-in-java>

## String Handling

- String : What and Why? - <https://www.javatpoint.com/java-string>
- Immutable String - <https://www.javatpoint.com/immutable-string>
- String Comparison - <https://www.javatpoint.com/string-comparison-in-java>
- String Concatenation - <https://www.javatpoint.com/string-concatenation-in-java>
- Substring - <https://www.javatpoint.com/substring>
- Methods of String class - <https://www.javatpoint.com/methods-of-string-class>
- StringBuffer class - <https://www.javatpoint.com/StringBuffer-class>
- StringBuilder class - <https://www.javatpoint.com/StringBuilder-class>
- String vs StringBuffer vs StringBuilder - <https://www.javatpoint.com/difference-between-string-and-stringbuffer> , <https://www.javatpoint.com/difference-between-stringbuffer-and-stringbuilder>
- Creating Immutable class - <https://www.javatpoint.com/how-to-create-immutable-class>
- toString method - [https://www.javatpoint.com/understanding-toString\(\)-method](https://www.javatpoint.com/understanding-toString()-method)
- StringTokenizer class - <https://www.javatpoint.com/string-tokenizer-in-java>
- Methods(All Methods Under this Section) - <https://www.javatpoint.com/java-string-charat>

## Exception Handling

- Exception Handling : What and Why? - <https://www.javatpoint.com/exception-handling-in-java>
- try and catch block - <https://www.javatpoint.com/try-catch-block>
- Multiple catch block - <https://www.javatpoint.com/multiple-catch-block-in-java>
- Nested try - <https://www.javatpoint.com/nested-try-block>
- try with resources - <https://www.javatpoint.com/java-try-with-resources>
- finally block - <https://www.javatpoint.com/finally-block-in-exception-handling>
- throw keyword - <https://www.javatpoint.com/throws-keyword-and-difference-between-throw-and-throws>
- Exception Propagation - <https://www.javatpoint.com/exception-propagation>
- throws keyword - <https://www.javatpoint.com/throws-keyword-and-difference-between-throw-and-throws>
- Exception Handling with Method Overriding - <https://www.javatpoint.com/exception-handling-with-method-overriding>
- Custom Exception - <https://www.javatpoint.com/custom-exception>

Nested Classes(Refer below Headings) - <https://www.javatpoint.com/java-inner-class>

- Nested Class : What and Why?
- Member Inner class
- Anonymous Inner class

- Local Inner class
- static nested class
- Nested Interface

Collection - <https://www.javatpoint.com/collections-in-java>

- Collection Framework
- ArrayList class
- LinkedList class
- ListIterator interface
- HashSet class
- LinkedHashSet class
- TreeSet class
- Map interface
- HashMap class
- LinkedHashMap class
- TreeMap class
- Hashtable class
- Comparable and Comparator
- Properties class
- Refer this link for further reference - <http://www.java67.com/2013/01/difference-between-set-list-and-map-in-java.html>