

# New Features in Java

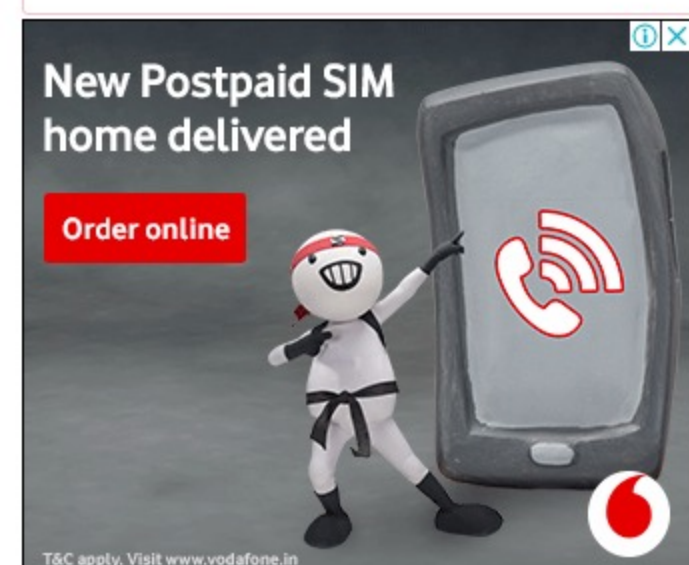
[< prev](#)[next >](#)

There are many new features that have been added in java. There are major enhancement made in Java5, Java6, Java7 and Java8 like **auto-boxing**, **generics**, **var-args**, **java annotations**, **enum**, **premain method** , **lambda expressions**, **functional interface**, **method references** etc.

Most of the interviewers ask questions from this chapter.

## Do You Know?

1. How to create generic class and generic method in java ?
2. What is annotation and how to create custom annotation ?
3. What is the advantage of assertion and where we should not use it ?
4. What is variable argument and what rules are defined for variable argument ?
5. What is the difference between import and static import ?
6. How autoboxing is applied in method overloading. Which concept beats autoboxing ?
7. What is enum type and how to specify specific value to the enum constants ?



## JavaSE 8 Features

The important features of JavaSE 8 are lambda expressions, methods references, default methods, functional interface, java 8 date/time, stream classes etc.

- [Java 8 Date/Time API \(Java 8\)](#)
- [Lambda Expressions \(Java 8\)](#)
- [Method References \(Java 8\)](#)
- [Functional Interfaces \(Java 8\)](#)
- [Stream \(Java 8\)](#)
- [Base64 Encode Decode \(Java 8\)](#)
- [Default Methods \(Java 8\)](#)
- [forEach method\(Java 8\)](#)
- [Collectors\(Java 8\)](#)
- [StringJoiner\(Java 8\)](#)
- [Optional class \(Java 8\)](#)
- [Nashorn JavaScript \(Java 8\)](#)
- [Parallel Array Sorting \(Java 8\)](#)
- [Type Inference \(Java 8\)](#)
- [Method Parameter Reflection \(Java 8\)](#)
- [Type annotations and repeating annotations \(Java 8\)](#)
- [Java JDBC Improvements \(Java 8\)](#)
- [Java IO Improvement \(Java 8\)](#)
- [Java Concurrency Improvement \(Java 8\)](#)

## JavaSE 7 Features

The important features of JavaSE 7 are try with resource, catching multiple exceptions etc.

- [String in switch statement \(Java 7\)](#)
- [Binary Literals \(Java 7\)](#)
- [The try-with-resources \(Java 7\)](#)
- [Caching Multiple Exceptions by single catch \(Java 7\)](#)
- [Underscores in Numeric Literals \(Java 7\)](#)

## JavaSE 6 Features

The important feature of JavaSE 6 is premain method (also known as instrumentation).

- [Instrumentation \(premain method\) \(Java 6\)](#)

## J2SE 5 Features

The important features of J2SE 5 are generics and assertions. Others are auto-boxing, enum, var-args, static import, for-each loop (enhanced for loop etc.

- [For-each loop \(Java 5\)](#)
- [Varargs \(Java 5\)](#)
- [Static Import \(Java 5\)](#)
- [Autoboxing and Unboxing \(Java 5\)](#)
- [Enum \(Java 5\)](#)
- [Covariant Return Type \(Java 5\)](#)
- [Annotation \(Java 5\)](#)
- [Generics \(Java 5\)](#)

## J2SE 4 Features

The important feature of J2SE 4 is assertions. It is used for testing.

- [Assertion \(Java 4\)](#)