New Features in Java

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)

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