

Java 8

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need of java 8 in java -> 1) concise and minimal code.

2) to utilize functional programming

3) to enable parallel programming, more compatible code for multi core processor

Java 8 features

- 1) Lambda expressions
- 2) Stream API
- 3) Date and Time API
- 4) Base64 encode and decode
- 5) Method reference and constructor reference (::)
- 6) Default methods in Interfaces
- 7) Static methods in interface
- 8) Functional interface (only one abstract method)
- 9) Optional Class

Lambda Expression

Lambda expression is an anonymous function and

- Not having any name
- Not having any return type
- Not having modifier

Benefits of lambda expressions

Benefits of Lambda expression

1. To enable functional programming in Java
2. To make code more readable, maintainable and concise code
3. To enable parallel processing
4. JAR file size reduction
5. Elimination of shadow variables

Functional interface

Interface having **exactly single abstract method** but can have any number of defaults and static methods. We can invoke lambda function expression by using functional interface.

- Functional reference can be used to hold lambda expression
- Using lambda expression we don't need to use any implementation method

Interview questions link ->

- 1) <https://www.baeldung.com/java-8-interview-questions>
- 2) <https://www.geeksforgeeks.org/java-8-interview-questions-and-answers/>
- 3) <https://www.simplilearn.com/java-8-interview-questions-and-answers-article>
- 4) <https://www.interviewbit.com/java-8-interview-questions/>