

Method References

- Java8 introduce a new feature called method reference.
- Method reference is an implementation of functional interface.
- It is a simple way of defining lambda function/expression.
- If lambda expression required to provide implementation of existing method we use method reference.

Types of method references

- Static Method Reference (Fi \longrightarrow static Method)
- Non Static Method Reference (Fi \longrightarrow Non-static Method)
- Constructor Method Reference (Fi \longrightarrow Constructor)

Stream API

- Java 8 streams are used to manipulate data of collections.
- A stream is not a data structure instead it takes input from the Collections.
- It provide functional style approach to manipulate data.
- Streams are used for reading elements but not for storing elements.
- When used properly, StreamAPI allows us to reduce a huge amount of code.

Stream API methods



stream()
filter()
Map()
count()
sorted()
collect()
Collectors Class

Consumer Vs Predicate Vs Function Vs Supplier

Type	Abstract methods	Input	Returns Result as
Consumer	<code>void accept(T t)</code>	Accepts one Argument	It returns no result
Predicate	<code>boolean test(T t)</code>	Accepts one Argument	It returns a value ie., either true or false
Function	<code>R apply(T t)</code>	Accepts one Argument	It returns some value
Supplier	<code>T get()</code>	NILL	It returns some value

NOTE: All these are functional Interfaces, which are present in **java.util.function** package which has been introduced in Java 1.8