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Java 8 Features.

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ky app java 8 ke feature ko samjha sakte ho

Haan, main aapko Java 8 ke kuch important features ke bare me samajha sakta hu:

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1. Lambda Expressions: Java 8 me lambda expressions ka introduction hua, jise functional programming ke liye bahut hi useful hai. Lambda expressions anonymous functions ko represent karte hai, jo ek single line me likhe ja sakte hai. Ye code readability aur maintainability ko improve karta hai.

2. Stream API: Stream API collections ko process karne ka ek naya tareeka hai, jisme collections ke saare elements ko ek sath process kiya ja sakta hai. Ye code ko concise aur readable banata hai.

3. Date and Time API: Java 8 me naya Date and Time API introduce kiya gaya hai, jisme LocalDate, LocalDateTime, LocalTime jaise classes shamil hai. Ye classes date aur time ko represent karte hai aur inki operations ko perform karne ka ek naya tareeka provide karte hai.

4. Default Methods: Java 8 me interface me default methods ka concept introduce kiya gaya hai. Ye method interface ke default implementation provide karte hai, jisse backward compatibility ko improve kiya jata hai.

5. Method References: Java 8 me method references ka concept introduce kiya gaya hai, jise functional interfaces ke sath use kiya jata hai. Ye existing methods ko reference karte hai aur unka reuse karte hai.

6. Optional: Optional class ek wrapper class hai, jise null values ko handle karne ke liye use kiya jata hai. Ye NullPointerExceptions ko avoid karta hai.

In features ko use karke Java 8 ka use code ki readability, maintainability, performance aur functionality ko improve karne ke liye kiya jata hai.

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in sabka ek ek example bhi bata do java main

Certainly, here are some examples of Java 8 features:

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1. Lambda Expressions:

rust

Copy code

```
List<String> names = Arrays.asList("John", "Mike", "Sarah");
names.forEach(name -> System.out.println(name));
```

In the above example, a list of names is created and the forEach method is used along with a lambda expression to print each name in the list.

2. Stream API:

scss

Copy code

```
List<Integer> numbers = Arrays.asList(1, 2, 3, 4, 5);
int sum = numbers.stream().filter(n -> n % 2 == 0).mapToInt(Integer::intValue).sum();
```

In the above example, a list of integers is created and the stream method is used along with filter and mapToInt methods to get the sum of even numbers in the list.

3. Date and Time API:

java

Copy code

```
LocalDate date = LocalDate.now();
LocalTime time = LocalTime.now();
LocalDateTime dateTime = LocalDateTime.now();
```

In the above example, LocalDate, LocalTime and LocalDateTime classes are used to get the current date, time and date-time respectively.

4. Default Methods:

csharp

Copy code

```
interface Vehicle {
    default void start() {
        System.out.println("Starting vehicle...");
    }
}
class Car implements Vehicle {}
```

In the above example, a default method is defined in the Vehicle interface and the Car class implements the Vehicle interface.

5. Method References:

rust

Copy code

```
List<String> names = Arrays.asList("John", "Mike", "Sarah");
names.forEach(System.out::println);
```

In the above example, a list of names is created and the forEach method is used along with a method reference to print each name in the list.

6. Optional:

vbnet

Copy code

```
String str = null;
Optional<String> optionalStr = Optional.ofNullable(str);
if (optionalStr.isPresent()) {
    System.out.println(optionalStr.get());
} else {
    System.out.println("String is null.");
}
```

In the above example, the Optional class is used to handle a null String value. If the optional value is present, the value is printed. Otherwise, a default message is printed.

🔄 Regenerate response

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