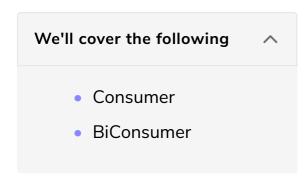
## **Consumer Functional Interface**

This lesson explains the basics of Consumer functional interfaces.



Consumers are functional interfaces that take in a parameter and do not produce anything.

Below are some of the functional interfaces which can be categorized as Consumers.

Consumer <t></t>	Represents an operation that accepts a single (reference type) input argument and returns no result	<pre>void accept(T t)</pre>
DoubleConsumer	Accepts a single double- value argument and returns no result	<pre>void accept(double   value)</pre>
IntConsumer	Accepts a single int- value argument and returns no result	<pre>void accept(int value)</pre>
LongConsumer	Accepts a single long- value argument and returns no result	<pre>void accept(long value)</pre>

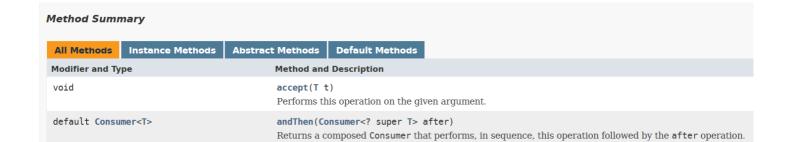
BiConsumer <t, u=""></t,>	Represents an	<pre>void accept(T t, U u)</pre>
	operation that accepts	
	two (reference type)	
	input arguments and	
	returns no result	
	Accepts an object-value	
ObjDoubleConsumer <t></t>	and a double-value	<pre>void accept(T t,</pre>
	argument, and returns	double value)
	no result	
ObjIntConsumer <t></t>	Accepts an object-value	
	and an int-value	<pre>void accept(T t, int</pre>
	argument, and returns	value)
	no result	
	Accepts an object-value	
ObjLongConsumer <t></t>	and a long-value	<pre>void accept(T t, long</pre>
	argument, and returns	value)
	no result	

## Consumer<T>

This interface takes a parameter of type T and does not return anything.

A consumer can be used in all contexts where an object needs to be consumed,i.e. taken as input, and some operation is performed on the object without returning any result.

Below is the list of methods in the Consumer interface. Consumer<T> has an abstract method accept() and a default method called andThen(), which is used for chaining.



In the below example, we will crate a Consumer which prints a value.

The andThen() method, which is a default method in the Consumer interface is used for chaining. Here is the syntax of this method.

```
Consumer<T> andThen(Consumer<? super T> after)
```

The andThen() method returns a composed Consumer that performs this operation followed by the after operation. In the below example, we will create two consumers, and we will chain them together using the andThen() method.

```
import java.util.function.Consumer;

public class ConsumerDemo {

   public static void main(String[] args) {

        Consumer<String> consumer1 = (arg) -> System.out.println(arg + "My name is Jane.");

        Consumer<String> consumer2 = (arg) -> System.out.println(arg + "I am from Canada.");

        consumer1.andThen(consumer2).accept("Hello. ");

   }
}
```







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This interface takes two parameters and returns nothing.

- T the type of the first argument to the operation
- U the type of the second argument to the operation.

This interface has the same methods as present in the Consumer<T> interface.

```
import java.util.function.BiConsumer;

public class BiConsumerDemo {

   public static void main(String[] args) {

      BiConsumer<String, String> greet = (s1, s2) -> System.out.println(s1 + s2);
      greet.accept("Hello", "World");

   }
}
```

Here is a short quiz to test you on what you have learned!

