Java 8 Streams

A stream represents a sequence of elements and supports different kind of operations to perform computations upon those elements:

```
List<String> myList =
   Arrays.asList("a1", "a2", "b1", "c2", "c1");

myList
   .stream()
   .filter(s -> s.startsWith("c"))
   .map(String::toUpperCase)
   .sorted()
   .forEach(System.out::println);
```

Stream operations are either intermediate or terminal. Intermediate operations return a stream so we can chain multiple intermediate operations without using semicolons. Terminal operations are either void or return a non-stream result. In the above example filter, map and sorted are intermediate operations whereas for Each is a terminal operation. For a full list of all available stream operations see the Stream Javadoc. Such a chain of stream operations as seen in the example above is also known as operation pipeline

```
Arrays.asList("a1", "a2", "a3")
.stream()
.findFirst()
.ifPresent(System.out::println); // a1
```

https://www.youtube.com/watch?v=WWXPQUgXagk