**Java 8 Streams**

References:

<https://stackify.com/streams-guide-java-8/>

#### **File Write Operation:**

public void whenStreamToFile\_thenGetFile() throws IOException {

String[] words = {

"hello",

"refer",

"world",

"level"

};

try (PrintWriter pw = new PrintWriter(

Files.newBufferedWriter(Paths.get(fileName)))) {

Stream.of(words).forEach(pw::println);

}}

Here we use forEach() to write each element of the stream into the file by calling PrintWriter.println().

#### **File Read Operation:**

private List<String> getPalindrome(Stream<String> stream, int length) {

return stream.filter(s -> s.length() == length)

.filter(s -> s.compareToIgnoreCase(

new StringBuilder(s).reverse().toString()) == 0)

.collect(Collectors.toList());

}

public void whenFileToStream\_thenGetStream() throws IOException {

List<String> str = getPalindrome(Files.lines(Paths.get(fileName)), 5);

assertThat(str, contains("refer", "level"));

}

Here Files.lines() returns the lines from the file as a Stream which is consumed by the getPalindrome() for further processing.