Exercises – Java 8 – Streams, Lambdas, Optional

1. uppercase - write a method that converts all the strings in a list to their upper case value

Given “first”, “second”, “third” -> “FIRST”, “SECOND”, “THIRD”

List<String> stringList = new ArrayList<>(Arrays.asList("first ", " second ", " third "));

Stream<String> stringStream = stringList.stream();

List< String > upperStrings = stringStream

.map(e -> e.toUpperCase())

.collect(Collectors.toList());

System.out.println(upperStrings);

2. List<String> words = Arrays.asList("first", "second", ...);

a. Loop down the words and print each on a separate line, with two spaces in front of each word.

Don’t use map.

“first”, “second”, “third” -> “ first”, “ second”, “ third”

stringList.forEach(e -> System.out.println(" " + e));

b. Repeat the previous problem, but without the two spaces in front. This is trivial if you use the same

approach as in #1, so the point is to use a method reference here, as opposed to an explicit lambda

in problem 1.

Stream<String> stringStream2 = stringList.stream();

stringStream2.forEach(System.out::println);

Stream<String> stringStream3= stringList.stream();

System.out.println(stringStream2.collect(Collectors.toList()));