Assignment questions Mastering java 8

Question 4: Concatenate Strings

Given a list of strings:

List<String> words = Arrays.asList("Java", "is", "fun", "with", "Streams");

Use the Stream API to concatenate all the strings into a single string. What is the expected output?

```java
import java.util.Arrays;
import java.util.List;
import java.util.stream.Collectors;

public class Question4 {

    public static void main(String[] args) {
        List<String> words = Arrays.asList("Java", "is", "fun", "with",
"Streams");

        String ans = words
                            .stream()
                            .collect(Collectors.joining(" "));
        System.out.println(ans);
    }
}
```

Question 5: Group by Length

Given a list of strings:

List<String> words = Arrays.asList("apple", "banana", "orange", "grape", "kiwi");

Use the Stream API to group the strings by their length. Return a Map where the key is the length of

the strings, and the value is a list of strings with that length. What is the expected output?

```java
import java.util.Arrays;
import java.util.List;
import java.util.Map;
import java.util.stream.Collectors;

public class Question5 {

    public static void main(String[] args) {
        List<String> words = Arrays.asList("apple", "banana", "orange",
"grape", "kiwi");
        Map<Integer,List<String>> map = words
                                            .stream()

    .collect(Collectors.groupingBy(String::length));
        System.out.println(map);
    }
}
```