**Task 18.02.2025**

**Task 1: Remove Negative Numbers from a List**

Requirements:

* Create a method removeNegativeNumbers(List<Integer> list).
* The method should use removeIf to remove all negative numbers from the list.
* The cleaned list should be printed in main using forEach.
* Use an ArrayList and fill it with 10 numbers.

**Task 2: Remove All Words with Less Than 5 Characters**

Requirements:

* Create a method removeShortWords(List<String> list).
* Use removeIf to remove all strings with fewer than 5 characters.
* The method should be called in main, and the result should be printed using forEach.
* Use an ArrayList and fill it with 6 strings.

**Task 3: Remove Words Containing a Specific Character**

Requirements:

* Create a method removeWordsContainingChar(List<String> list, char character).
* The method should use removeIf to remove all words that contain the given character.
  + Example: If character = 'L' and the ArrayList contains "Hello", "Hello" should be removed because it contains two 'L's.
* The cleaned list should be printed using forEach.
* Use an ArrayList, fill it with 6 strings, and test the method 2–3 times with different characters when calling the method.

**Task 4 (Hard): Replace All Even Numbers with Half Their Value**

Requirements:

* Create a method halveEvenNumbers(List<Integer> list).
* Use replaceAll to replace every even number with half its value (e.g., 8 → 8 / 2 = 4).
* Inside a Lambda expression after ->, you can use {} to add an if condition and return the appropriate value.
* The method should be called in main, and the result should be printed using forEach.
* Use an ArrayList and fill it with 10 numbers.

**Mandatory: Independent Learning**

Write down the chapters or topics you have worked on here:

* Learning with the question catalogue from Wiley
* <https://study.learning.wiley.com/products/40b9d103-a96f-4084-b070-f66cfc9de1c1?tab=units>
* I don’t have decided on a specific topic to repeat, yet.
* Maybe I want to repeat garbage collection eligibility, because it brain fries me anytime, as soon as objects start being nested in each other :D
* Please feel free to offer some options to choose from next time 😊