

## Seminar 8

### week 8 (21 November 2022 – 25 November 2022)

1. Complete the discussion about Java functional programming.
2. Problem 1: Given the following collection  
`List<Integer> numbers = Arrays.asList(1, 2, 3, 4, 5, 6, 7, 8,9,10,11,12,14,15);`  
Using Java functional style (Java streams), please write a program that is doing the following operations in the following order:
  - a)keep only the numbers which are multiple of 3 or multiple of 2;
  - b)transform each remaining number into a string, that consists of a prefix "A", the successor of the number and the suffix "B"  
(eg. 6 is transformed into "A7B")
  - c)concatenate all the strings
3. Problem 2: Given the following collection  
`List<Integer> numbers = Arrays.asList(1, 2, 3, 4, 5, 6, 7, 8,9,10,11,12,14,15,16);`  
Using Java functional style (Java streams), please write a program that is doing the following operations in the following order:
  - a)eliminates all the numbers which are not multiple of 4;
  - b)transform each remaining number into its sucesor (eg. 4 is transformed into 5);
  - c)compute the sum modulo 2 of the remaining numbers (eg. (9 +5) mod 2=0)
4. Discuss the Garbage Collector implementation from lab assignment **A4**.
5. Start the Discussion about the lab assignment **A5**.