## Aufgabe 12.02.2025

1. What will the following code output? Why?

```
String s1 = "Java ist toll";
String s2 = "Java ist toll";
System.out.println(s1 == s2);

String s3 = "Java ist "+ "toll";
System.out.println(s1 == s3);

String s4 = new String("Java ist toll");
System.out.println(s2 == s4);

String s5 = "!";
String s6 = s2+s5;
String s7 = s2+s5;
System.out.println(s6==s7);
```

**Explanation:** 

2.

Gegeben ist folgender Code. Was muss in Zeile 2 eingesetzt werden, damit "v" in der Konsole ausgegeben wird?

```
String s = "Java ist toll";
//Zeile 2
System.out.println(result);
```

```
a. char result = s[2];
b. char result = s[3];
c. char result = s.charAt(2);
d. char result = s.charAt(3);
```

- 3. What does the indexOf method of the String class do? What happens if the method finds nothing? Provide examples and explain them.
- 4. What is the output of the following code snippet, and why is that the case?

```
String s = "Java ist toll";
boolean result = s.contains("Toll");
System.out.println(result);
```

5. How can you remove spaces before and after a word in Java? Find a suitable method in the String class.

- 6. Write a method getEndergebnisAppend(String s, String s1) that creates a StringBuilder, appends s and s1 together, and returns the result.
- 7. Write a method appendMehrereStrings(String[] arr) that appends multiple string values from an array (String[] arr = {"Hallo", " ", "Welt", "!", " Wie", " geht's?"}) to a StringBuilder and prints the result.
- 8. Write a method getEndergebnisReverse(String s, String s2) that joins both strings using a StringBuilder and then outputs the text in reverse. Example: "Hello Welt!" → "!tleW olleH"
- 9. Write a method getEndergebnisInsert(String s, String s2) that creates the text "HalloWelt" and inserts a space between "Hallo" and "Welt".
- 10. Write a method reverseEveryWord that takes a sentence as a parameter. Each letter in each word should be reversed, while the word order remains the same. Example: "Hallo Welt" becomes "ollaH tleW".