Intro to Java

7 - Strings / Exercises: Basics of String methods

Exercises: Basics of String methods

Looking at the Java reference documentation

A reference is a technical documentation that explains all the capabilities available in a class or in a library. This exists also for every Java class.

- Google for java string reference to find the reference documentation of the string class or visit the official Java String Documentation.
- Try to find a method that does what you need, if it exists.
- Do not use the SEARCH box on the website but the search of the browser.
- Read the explanation and how it is used.
- Use this information to do the following exercises.

length(), isEmpty(), toUpperCase(), toLowerCase()

Write a program that prints the length of a given string.

Print if the string is empty

Print the same string with all its letters changed to upper case

Print the same string with all its letters changes to lower case

```
Input: Hello World

Output:

Length: 11

Empty? false

HELLO WORLD

hello world
```

equals(String anotherString) and equalsIgnoreCase(String anotherString)

Write a program that reads two strings from the input and checks if they are equal or only equal with case ignored.

```
Input:
Wirsing
Wirsing
Output: Equal

Input:
Wirsing
Wirsing
Output: Not equal but equal with case ignored

Input:
Wirsing
Output: Not equal but equal with case ignored
```

contains(String str)

Write a program that reads two strings from the user and outputs if one is a part of the other.

```
Input:
Vanillepuddingeis
pudding
Output: pudding is a part of Vanillepuddingeis
```

startsWith(String prefix)

Write a program that reads two strings from the user and outputs if one word is the prefix (first part) of the other.

```
Input:
Vanillepudding
Vanille
Output: Vanille is a prefix of Vanillepudding
```

endsWith(String suffix)

Write a program that reads two strings from the user and outputs if one word is the suffix (last part) of the other.

```
Input:
Vanillepudding
pudding
Output: pudding is a suffix of Vanillepudding
```

charAt(int index)

Write a program that prints the index and the character for a given word.

```
Input: Hello
Output:
Index: 0, Character: H
Index: 1, Character: e
Index: 2, Character: 1
Index: 3, Character: 1
Index: 4, Character: o
```

indexOf(String substring)

Write a program that takes two strings and prints where in the first string the second string starts

```
Input 1: This is a test
Input 2: is
Output: is can be found at index 2
```

indexOf(String substring, int index)

Write a program that takes an int as position and two strings and prints where in the first string the second string starts

```
Input 1: This is a test
Input 2: is
Start Position: 4
Output: is can be found at index 5
```

substring(int beginIndex, int endIndex)

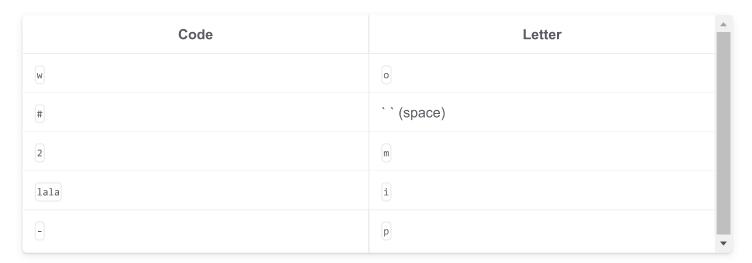
Write a program that reads a string and a number from the input and splits the given string at the index of the number.

Input:	
Vanillepuddingeis	
7	
Output:	
Vanille - puddingeis	

replace(String target, String replacement)

Use the replace method to decipher this string [lala#lwve#-rwgra22lalang!#<3]

The code is:



compareTo(String anotherString)

Write a program that reads two strings from the user and outputs them in lexicographical order.

Input:	
Banane	
Ananas	
Output: Ananas, Banane	
Input:	
Vanillepudding	
Wirsing	
Output: Vanillepudding, Wirsing	

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