Assignment 2\_5

1. Read the code of the String class and prepare a document table:
2. [char charAt(int index)](https://www.javatpoint.com/java-string-charat)
3. [int length()](https://www.javatpoint.com/java-string-length)
4. [static String format(String format, Object... args)](https://www.javatpoint.com/java-string-format)
5. [static String format(Locale l, String format, Object... args)](https://www.javatpoint.com/java-string-format)
6. [String substring(int beginIndex)](https://www.javatpoint.com/java-string-substring)
7. [String substring(int beginIndex, int endIndex)](https://www.javatpoint.com/java-string-substring)
8. [boolean contains(CharSequence s)](https://www.javatpoint.com/java-string-contains)
9. [static String join(CharSequence delimiter, CharSequence... elements)](https://www.javatpoint.com/java-string-join)
10. [static String join(CharSequence delimiter, Iterable<? extends CharSequence> elements)](https://www.javatpoint.com/java-string-join)
11. [boolean equals(Object another)](https://www.javatpoint.com/java-string-equals)
12. [boolean isEmpty()](https://www.javatpoint.com/java-string-isempty)
13. [String concat(String str)](https://www.javatpoint.com/java-string-concat)
14. [String replace(char old, char new)](https://www.javatpoint.com/java-string-replace)
15. [String replace(CharSequence old, CharSequence new)](https://www.javatpoint.com/java-string-replace)
16. [static String equalsIgnoreCase(String another)](https://www.javatpoint.com/java-string-equalsignorecase)
17. [String[] split(String regex)](https://www.javatpoint.com/java-string-split)
18. [String[] split(String regex, int limit)](https://www.javatpoint.com/java-string-split)
19. [String intern()](https://www.javatpoint.com/java-string-intern)
20. [int indexOf(int ch)](https://www.javatpoint.com/java-string-indexof)
21. [int indexOf(int ch, int fromIndex)](https://www.javatpoint.com/java-string-indexof)
22. [int indexOf(String substring)](https://www.javatpoint.com/java-string-indexof)
23. [int indexOf(String substring, int fromIndex)](https://www.javatpoint.com/java-string-indexof)
24. [String toLowerCase()](https://www.javatpoint.com/java-string-tolowercase)
25. [String toLowerCase(Locale l)](https://www.javatpoint.com/java-string-tolowercase)
26. [String toUpperCase()](https://www.javatpoint.com/java-string-touppercase)
27. [String toUpperCase(Locale l)](https://www.javatpoint.com/java-string-touppercase)
28. [String trim()](https://www.javatpoint.com/java-string-trim)
29. [static String valueOf(int value)](https://www.javatpoint.com/java-string-valueof)
30. Try different functions of the String class:

* Tested in Eclipse IDE!

1. Print the first 100 even numbers:

* Completed in Eclipise IDE!

1. Print the n odd numbers, starting from the s, where both s and n are entered

* Completed in Eclipse IDE!

1. Check whether the number entered is Prime or not.

* Completed in Eclipse IDE!

1. Check whether the number is a Palindrome or not.

* Completed in Eclipse IDE!

1. Check whether the number is an Armstrong or not.

* Completed in Eclipse IDE!

1. Check if any String needs to be removed if repeated.

* Completed in Eclipse IDE!

1. Print all the combinations of characters entered.

* Completed in the Eclipse IDE!

1. Answer is: tiny
2. Answer is: 6 3
3. Answer is: -2 2
4. Can we put more than one public class in a java file?

* Yes you can. But only one class can have the public keyword per java file.

1. Can we execute a program without a Java file?

* Yes.

1. What is the difference between >> and >>>?

* >> is a an arithmetic right shift, and >>> is a logical shift right

1. Which characters can be used as the second character of an identifier but not the first?

* Numbers can not be used as the first character of an identifier. An identifier can only start with a letter character, \_, or $.

1. Give an example where a pass by value scenario can be solved by using pass by reference.

* This is a trick question as Java is strictly pass by value.