String functions

String are immutable objects

indexOf(substr)	It finds the position of	String s1="some data"
	the first occurrence of given substring	S1.indexOf("data") -→5
toLowerCase()	It converts the string	String s1="ABCtest"
	into lowercase	S1.toLowerCase() -→abctest
toUpperCase()	It converts the string	String s1="ABCtest"
	into uppercase	S1.toUpperCase() -→ABCTEST
contains(substr)	It returns true, if the	String s1="some data"
	substring exists otherwise false	S1.contains("data")-→true
split(delimiter)	It breaks the string	String s1="xxx,yyy,zzz-rrr"
	into parts, at the given delimiter	S1.split(",")-→ ["xxx","yyy","zzz-rrr"]
		S1.split("-")
		["xxx,yyy,zzz","rrr"]
join(delimiter, arr of	It will combine all the	String s1="xxx,yyy,zzz-rrr"
strings)	values from arr,	String[] arr=S1.split(",")
	separated by delimiter	String s2=String.join(":", arr);
otortoviith(ouhotr)	It roturns true if string	XXX:yyy:zzz-rrr
startswith(substr)	It returns true, if string starts with given	String s1="Happy life" S1.startsWith("Ha")-→ true
	substr, false otherwise	S1.startsWith("ab")-→false
endswith(substr)	It returns true, if string	String s1="Happy life"
Chaswith(sabsti)	ends with given	S1.endsWith("fe")-→ true
	substr, false otherwise	S1.endsWith("ab")-→false
charAt(i)	It retrieves the	String s1="Happy";
	character at given	S1.charAt(1)-→a
	index position	
matches(regexpress	It checks whether the	String s1="Happy Life"
sion)	given regular	S1.matches(".*fe\$")true
	expression matches	
	the string or not	String str="rain in SPAIN in plain";
		System.out.println("matches:"+str.matches(
		".*a.*n.*"));true
equals(Object ob)	It checks whether the	String s1="test"
	contents of 2 string	String s2=new String("test")
	are same or not,	S1.equals(s2) -→ true
	returns true, if the	
	contents are same,	
and and To (Olaise at	false othertwise	Christan 22 22 22 22
compareTo(Object	It returns -ve value if	String s1="aaaa";
ob)	s1 <s2, +ve="" 0="" if="" number="" otherwise<="" s1="=s2;" td=""><td>String s2="AAAA";</td></s2,>	String s2="AAAA";
isBlank()		s1.compareTo(s2)-→+ve number String str = "testing";
ואטנמווג()	This method is used	boolean r = str.isBlank();
	to check whether	System.out.println(r);
		oyatam.out.printin(i),

	the string is blank or not. It returns true if the string is empty or contains only white space codepoints, otherwise false	<pre>str = ""; r = str.isBlank(); System.out.println(r);</pre>
lines()	It breaks the line into multiple lines at \n character position	String str = "testing \n is a \r technical \n portal"; Stream <string> lines = str.lines();</string>
		Output: testing is a technical portal
strip() stripLeading() stripTrailing()	This method is used to remove all the leading and trailing spaces from a string. If you want to remove only leading spaces then use the stripLeading() me thod and for trailing, spaces use the stripTrailing() me thod	String str1=" hello "; System.out.println("using strip "+str1.strip()); System.out.println("using stripleading "+str1.stripLeading()); System.out.println("using stripTrailing "+str1.stripTrailing());
String repeat(int count)	This method is used	String s1="123"
	to repeat a string at the specified time.	S1.repeat(3)
	It returns a string whose value is the concatenation of this string repeated	Output 123123123
	specified times.	

If you need a string which is changing frequently, the use StringBuffer or StringBuilder StringBuilder sb=new StringBuilder("xxxx");

StringBuffer sf=new StringBuffer("aaa");

StringBuilder class functions are not synchronized, hence while changing data, it does not lock the object, Hence this class is suitable in Single threaded programming.

StringBuffer class functions are synchronized, hence while changing data, it puts lock on the object, Hence this class is suitable in Multithreaded programming.

append()-→ it appends the given string in the original string

StringBuilder sb=new StringBuilder("test")

sb.append(" data")

System.out.println(sb); ///test data

In both these classes, we have functions for deleting portion of the string, inserting portion of the string

Collection class hierarchy

List ---→ Vector, ArrayList, LinkedList

- 1. It is ordered collection, it means it stores the data in the same sequence, in which it is entered.
- 2. Since it is ordered, we can retrieve data by using index.
- 3. Since we can use index, we can retrieve data randomly.
- 4. Duplicate values are allowed

Set

- 1. It is unordered collection, it means it stores the data in the different way than the sequence in which it is entered.
- 2. Since it is unordered, we cannot retrieve data by using index.
- 3. Since we cannot use index, we cannot retrieve data randomly.
- 4. Duplicate values are not allowed

Map

- 1. It is Ordered collection, it maintains the sequence of keys, in the same order in which it is inserted
- 2. The data is store as key \rightarrow value pair
- 3. Keys will help us to retrieve data faster and randomly
- 4. Keys has to be unique, value can be duplicated.