String functions

String are immutable objects

indexOf(substr)	It find the position of the first	String s1="some data"
	occurrence of given substring	S1.indexOf("data") -→5
toLowerCase()	It converts the string into lowercase	String s1="ABCtest"
		S1.toLowerCase() -
		→abctest
toUpperCase()	It converts the string into	String s1="ABCtest"
	uppercase	S1.toUpperCase() -
		→ABCTEST
contains(substr)	It returns true, if the substring	String s1="some data"
	exists otherwise false	S1.contains("data")-→true
split(delimiter)	It breaks the string into parts, at the	String s1="xxx,yyy,zzz-rrr"
	given delimiter	S1.split(",")-→
		["xxx","yyy","zzz-rrr"]
		S1.split("-")
		["xxx,yyy,zzz","rrr"]
		[700,977,7== ,]
join(delimiter, arr of	It will combine all the values from	String s1="xxx,yyy,zzz-rrr"
strings)	arr , separated by delimiter	String[] arr=S1.split(",")
3 ,		String s3="aaa";
		String s2=s3.join(":", arr);
		xxx:yyy:zzz-rrr
startswith(substr)	It returns true, if string starts with	String s1="Happy life"
	given substr, false otherwise	S1.startsWith("Ha")-→ true
		S1.startsWith("ab")-→false
endswith(substr)	It returns true, if string ends with	String s1="Happy life"
	given substr, false otherwise	S1.endsWith("fe")-→ true
		S1.endsWith("ab")-→false
charAt(i)	It retrieves the character at given	String s1="Happy";
	index position	S1.charAt(1)-→a
matches(regexpresssion)	It checks whether the given regular	String s1="Happy Life"
	expression matches the string or	S1.matches("fe\$")
	not	
equals(Object ob)	It checks whether the contents of 2	String s1="test"
	string are same or not, returns true,	String s2=new String("test")
	if the contents are same, false	S1.equals(s2) -→ true
comparaTo(Ohicat ah)	othertwise	C+ving 01="0000":
compareTo(Object ob)	It returns -ve value if s1 <s2, 0="" if<="" td=""><td>String s1="aaaa";</td></s2,>	String s1="aaaa";
	s1=s2; +ve number otherwise	String s2="AAAA";
		s1.compareTo(s2)-→+ve
		number

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

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

- 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.