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CSAD992 - Programming in Java

classTest - 1

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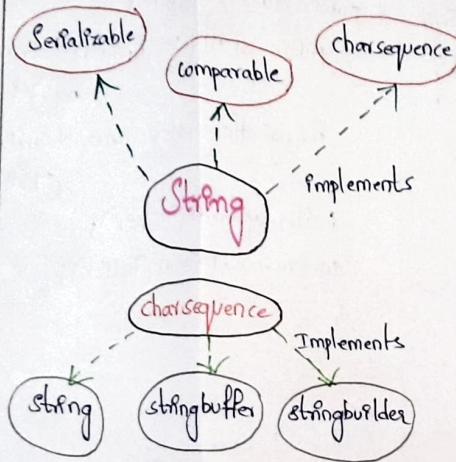
① String class in Java:-

Java string is basically an object that Represents sequence of char values
 An array of characters works same as Java string. for example

```
char[] ch = {'p','r','i','y','a'};
String s = new String(ch);
⇒ String s = "priya";
```

⇒ Java string class provides a lot of methods to perform operations on strings such as compare(), concat(), equals(), split(), length(), replace(), compareTo(), intern(), substring() etc.

⇒ The Java.lang.string class implements Serializable, Comparable, and CharSequence interfaces



⇒ These are two ways to create string object:

- ⇒ By string literal
- ⇒ By new keyword

Java String class methods:-

① char charAt(int index): It Returns char value for the particular index.

② int length(): It returns string length.

③ static String format(String format, Object... args): It Returns a formatted string.

④ String substring(int beginIndex): It Returns substring for given begin index.

⑤ boolean contains(CharSequence): It returns true or false

⑥ boolean isEmpty(): It checks if string is empty.

⑦ String concat(String str): It concatenates the specified string.

⑧ String[] split(String regex): It returns a split string matching

⑨ String intern(): It Returns an internal string.

⑩ int indexOf(int ch): It Returns the specified char value index.

②

String Buffer:

- * String Buffer is a peer class of String that provides much of the functionality of Strings.
- * The String represents fixed length, immutable character sequences while StringBuffer represents growable and writable character sequences.
- * StringBuffer may have characters and substrings inserted in the middle or appended to the end.
- * It will automatically grow to make room for such additions and often has more characters preallocated than are actually needed, to allow room for growth.
- * In order to create a String Buffer, an object needs to be created.

Ex: String Buffer

```
* public class Buffer Test {  
    public static void main (String[]  
        args) {  
        StringBuffer buffer = new StringBuffer  
            ("hello");  
        buffer.append ("Java");  
        System.out.println (buffer);  
    }  
}
```

String Builder:

- * It is similar to StringBuffer, the String Builder in Java represents a mutable sequence of characters.
- * The String Builder creates class provides an alternative to String class, as it declares creates a mutable sequence of characters

- * The function of String Builder is very much similar to the StringBuffer class as both of them provide an alternative to String class by making a mutable sequence of characters
- * creating a new String with name str

Ex: String Builder

```
* public class Builder Test {  
    public static void main (String[] args) {  
        StringBuilder builder = new  
            StringBuilder ("hello");  
        builder.append ("Java");  
        System.out.println (builder);  
    }  
}
```