

## 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

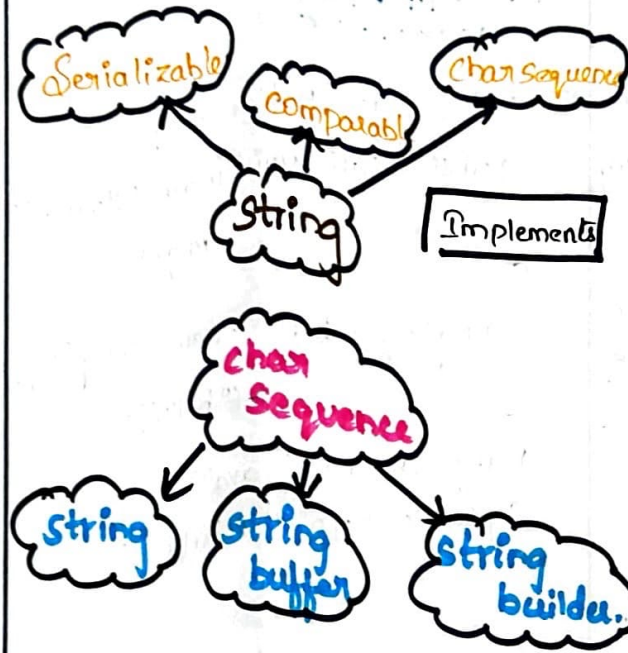
```
char[] ch = {'s', 'a', 'n', 'i', 't', 'a'};
```

```
String s = new String(ch);
```

```
=> String s = "Priya";
```

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

\* The `java.lang.String` class implements `Serializable`, `Comparable` and `CharSequence` interfaces.



\* There are two ways to create String Object.

=> By string literal

=> By new

## Java String Class Methods:-

① Char charAt(int index):-

It returns char value for the particular index.

② int length() :- It returns the 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 index contains (Char sequence):- It returns true or false.

⑥ Boolean isEmpty():- It checks if the 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 interned 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 String.

\* The String represents fixed length, immutable character sequences while String buffer represents growable and writable character sequences.

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

### String Builder

\* It is similar to String Buffer, 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 the String Builder is very much similar to the String Buffer 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 BuilderTest {  
    public static void main (String[]  
        args)  
    {  
        StringBuilder builder = new StringBuilder  
            ("hello");  
        builder.append ("Java");  
        System.out.println (builder);  
    }  
}
```