

Java String

Q 1 :What is String and its' data type ?

Ans : String is a class and its' datatype is charSequence .

Q 2 : Why String is Immutable ?

Ans :

Source : <https://stackoverflow.com/questions/22397861/why-is-string-immutable-in-java>

Q 3: Difference between final and immutable ?

Ans :final means that you can't change the object's reference to point to another reference or another object, but you can still mutate its state (using setter methods e.g). Where immutable means that the object's actual value can't be changed, but you can change its reference to another one.

Source : <https://stackoverflow.com/questions/34087724/what-is-the-difference-between-immutable-and-final-in-java>

Q 4 : How can check Palindrome String ?

Ans : If a reverse of a string is same as the main string is palindrome .

Q 5 : Why we use '==' and 'equals' ?

Ans : We use 'equals' for object equality and '==' checks for memory reference .

Q 6 : String Constant pool and Heap memory relation with garbage collection .

Ans : Heap memory a work object as well as garbage collection but constant pool have no relation with garbage collection .

Q 7: What is the real life application of equals and equalsIgnoreCase ?

Ans : In login page equals for username and equalsIgnoreCase for password.

Q 8 :Define difference between StringBuilder and String buffer ?

Ans :

No.	StringBuffer	StringBuilder
1)	StringBuffer is <i>synchronized</i> i.e. thread safe. It means two threads can't call the methods of StringBuffer simultaneously.	StringBuilder is <i>non-synchronized</i> i.e. not thread safe. It means two threads can call the methods of StringBuilder simultaneously.
2)	StringBuffer is <i>less efficient</i> than StringBuilder.	StringBuilder is <i>more efficient</i> than StringBuffer.

Source 1: <https://www.javatpoint.com/difference-between-stringbuffer-and-stringbuilder>

Source 2: <https://www.geeksforgeeks.org/g-fact-27-string-vs-stringbuilder-vs-stringbuffer/>

Q 9: What is method chaining ?

Ans :

Example :

```
StringBuffer sb = new StringBuffer();  
sb.append("Hello ").append(name).append("! Welcome!");
```

Source : https://www.javamex.com/java_language/method_chaining.shtml

Q 10 :What interfaces are implemented by java.lang.string ?

Ans :Serealizable ,Comparable and CharSequence .