

String in Java

Day 14 Assignment

1. What is a String in Java?
2. Types of String in Java are?
3. In how many ways can you create string objects in Java?
4. What is a string constant pool?
5. What do you mean by mutable and immutable objects?
6. Where exactly is the string constant pool located in the memory?

1. What is a String in Java?

Ans: String is the collection of character in array

2. Types of String in Java are?

Ans: Two types of String

1. Immutable string
2. Mutable string

3. In how many ways can you create string objects in Java?

Ans: There are **two** ways to create a String object:

1. Using string literal
2. Using new keyword

Using string literal : Java String literal is created by using double quotes. For Example: String s="Welcome";

Using new keyword : Java String is created by using a keyword "new".

4. What is a string constant pool?

Ans:

- String constant pool is a storage space in the Java heap memory where string literals are stored.
- It is also known as String Pool or String Intern Pool.
- It is privately maintained by the Java String class.
- By default, the String pool is empty.
- In here, Duplicasy not allowed

5. What do you mean by mutable and immutable objects?

Ans: An object whose internal state can be changed is mutable. On the other hand, immutable doesn't allow any change in the object once it has been created.

S.No.	Mutable	Immutable
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1	Fields can be changed after the object creation	Fields cannot be changed after object creation
2	Generally provides a method to modify the field value	Does not have any method to modify the field value
3	Has Getter and Setter methods	Has only Getter method
4	Example: StringBuilder, java.util.Date	Example: String, Boxed primitive objects like Integer, Long and etc

6. Where exactly is the string constant pool located in the memory?

Ans: Heap memory