String

08 June 2025   09:09

A String in java is an Class that represent a sequence of characters

How to create String object
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  1. Using literal
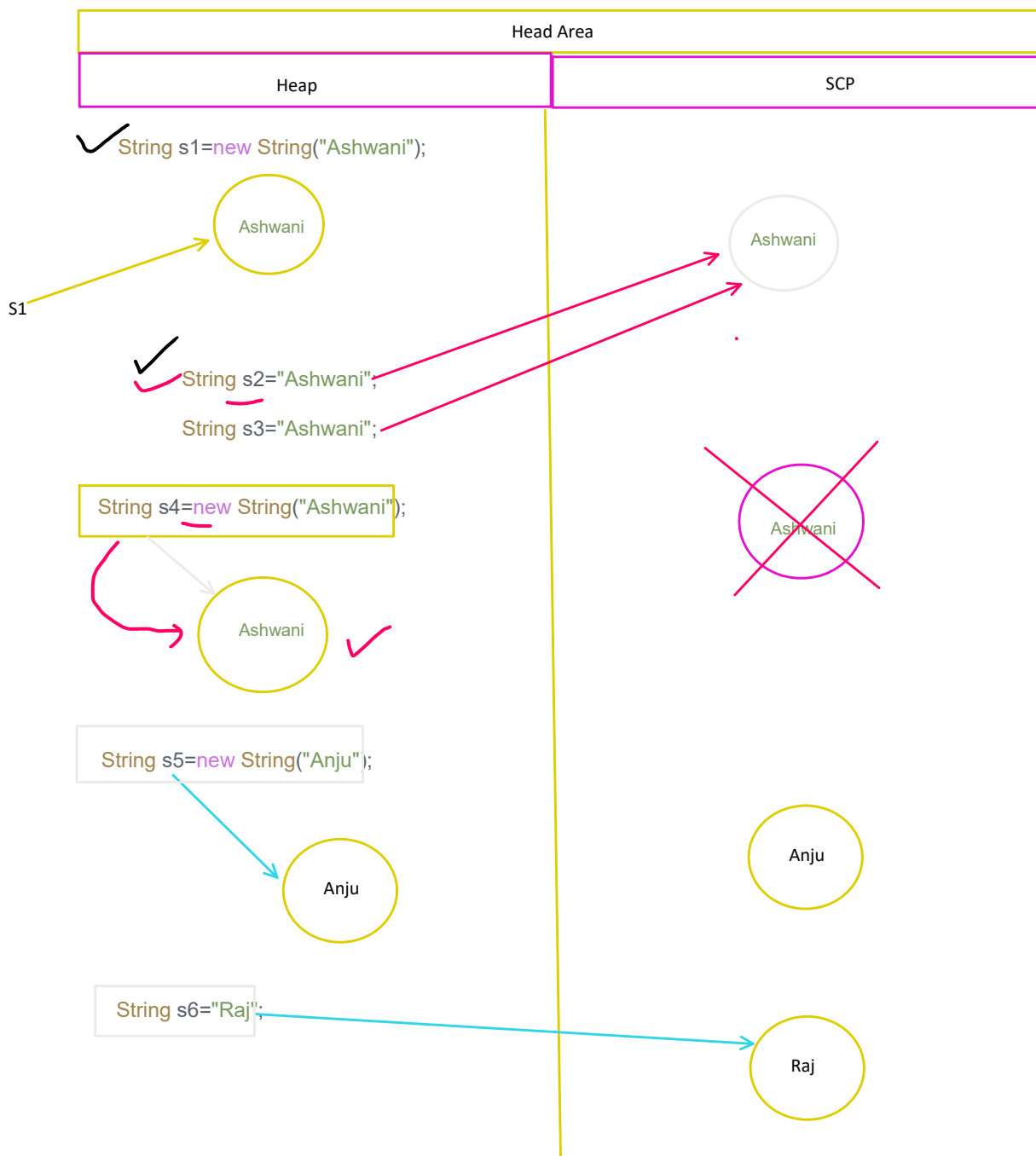 2. Using new keyword

String name = "Ashwani" ; // String literal (recommended)
String name = new String("Ashwani");

== -> in case of primitive it compare values
== -> in case non primitive it compare reference
.equals()

Head Area	
Heap	SCP

String s1=new String("Ashwani");

(Ashwani)

(Ashwani)

S1

String s2="Ashwani";

String s3="Ashwani";

String s4=new String("Ashwani");

(Ashwani)

(Ashwani)

(Ashwani)

String s5=new String("Anju");

(Anju)

(Anju)

String s6="Raj";

(Raj)

What is immutable ?
Cannot be changed after creation

```java
public class ImmutableDemo {
    public static void main(String[] args) {
        String s1=new String( original: "Java");
        String s2 = s1.concat( str: "full stack");
        System.out.println(s1 == s2);

    }
}
```

Java

Java full stack
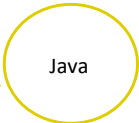
Why String is Immutable ?
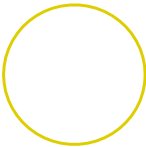We mostly use String in development and we use string for storing username, password, of db

Example 1

String password ="123444"
Password.concat("238203");

123444

Example 2
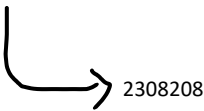--------------

String userData= " name, prefernce, location"

Prefernce --> babu

String use in Caching
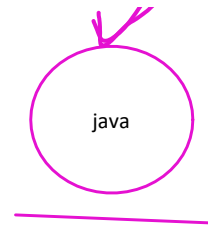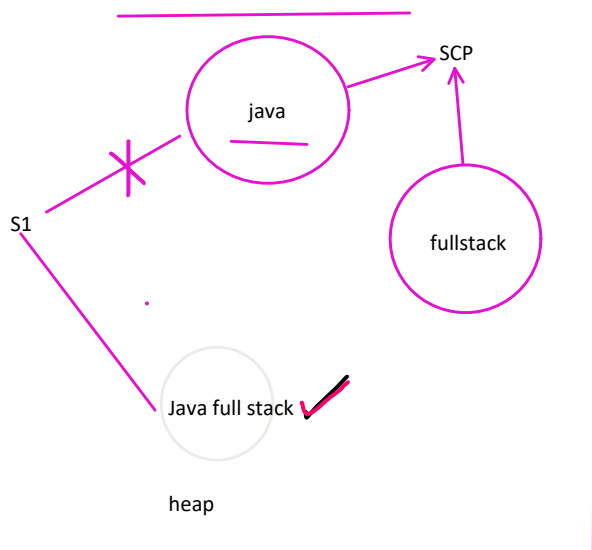
Example 3

String s1=new String("Ashwani");   //hashcode --> 8687878
S1.concat("upadhyay");

2308208

Shivendra Pandey 10:02
Is the object name is same then also different object is created?

String s1=new String("Java")

s1= s1.concat("full stack");

SCP

SCP

java

fullstack

S1

Java full stack ✔

heap

java

String s1 = "java"
String s2 =s1.concat("fullstack");

S1-- scp--- literal
S2--

Java --- scp
Fullsatck --scp
Javafullstack --- heap

Questions 1
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1. String s1 = "java"
2. String s2 = "java"

Answers :

SCP	1
Heap	0

Question 2

String s1 = new String("java");
String s1 = new String("java");

Answer:

SCP	1
Heap	2

Questions 3:

String s1 ="java"
String s2 ="java"
String s3 = new String("java");

Answer:

SCP	1
Heap	1
Total	2

Questions 4:

String s1="hello"
String s2="world"

String s3 = s1+ s2;

Answer:

SCP	2
Heap	1

Questions 5

String s1 = "java"
String s2 = new String("java").intern();

SCP

java

java — heap

Answer:

SCP	1
Heap	1
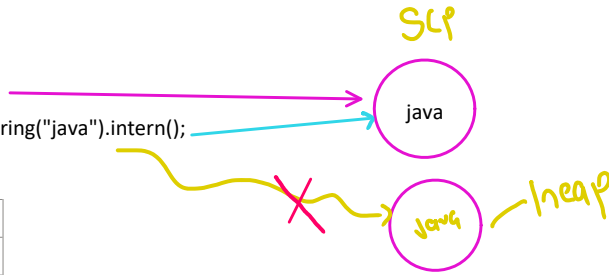
1.5

1. StringBuffer --> mutable, Thread safe , slow
2. Stringbuilder ->mutable , Not Thread safe , faster

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Features:	String	StringBuffer	StringBuilder
Mutable	❌	✅	✅
Thread - safe	✅	✅	❌
Fast	Medium	Slow	Very Fast
Use case	Password, connection When you required immutablity	When we required thread safty	When you required frequent modification

Q1 : Reverse String

String s="abhishek";

0	1	2	3	4	5	6	7
A	B	H	I	S	H	E	k

Q2: Question : Count vowels and consonants

a, e, I , o u
Eg: Ashwani

V= 3
C= 4

Q3: check if string is palindrome
Eg: madam
121

Q4: Capitalize first letter of string
Eg: java full stack
o/p: Java Full Stack

Q5: remove deplucate char from string
Eg aabcd
o/p: abcd

Q6: check string is anagram