

How r string ref in java! · In jeur , strings & implemented as obj of String class. · String is an inbuilt clan in java. lary. String It is auto imported. - String &1 = "Hello world"; Mulhen string is created, they is created in the form af objects "Kells" 11 an obj \$1 contains the string "!Hells" what are the features of string in jure) strings r unindexable. Mey can't be indexed like an arr eg String &= "Hello"; Sophin (p[0]); // # Erron. 2) Strings r immutable ** - immutable means can't be modified - strings r made immutable, to improve performance as optimization is done on the immutable strings

eg In jana: i) Char c[] = { 'a', 'b', 'c'.3; 1/ This is allowed. It is an arr of char. 2) Chan C[] = {"Hells"}; // Net allowed as string obj can't be converted to are of than. 3) String p="Hello"; sohln (\$60)); // Indering is not allowed. String r ref variable · When we weate a string, then string variable or ref variable. eg String x1 = "Hello"; String \$2 = "Bye"; Bye." "Hello"

SI S2 ref var. They faint to "hello" & "bye" obj.

*what happens when you use assignment reperator (=) with string String \$1= "Hello"; Stiving \$2 = "Bye"; \$1= \$2; // Shallow copy occurs - Both ref point to same obj. 1 "Bye") " rells ! · when assignment spr is used both ref point to same obj . obj v not capied as expected. · Now 816 52 point to same obj. How to ropy one string to another. - use new operator.

How to copy one string to another.

- use new operator.

- seep copy occurs.

- New obj is created.

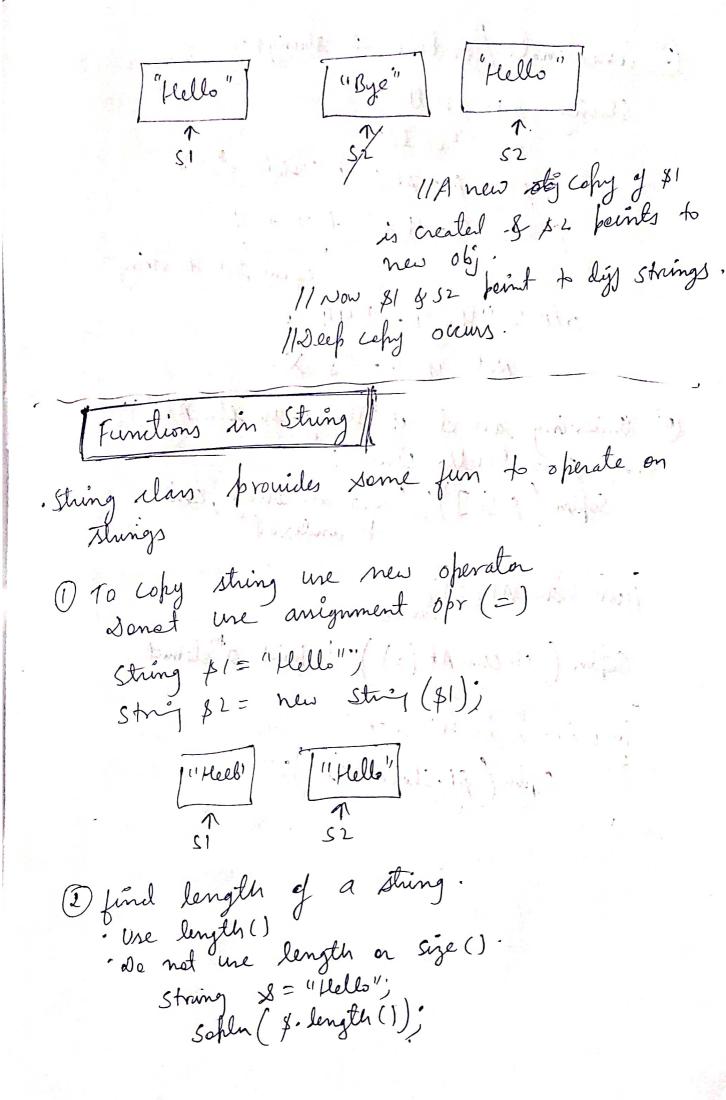
- Both & & & peint & dig obj.

String & = "Hell";

\$2 = "Bye";

\$2 = new String (\$1); //\$1 Copied to \$2.

\$2 = new String (\$1); // All Copied to \$2.



3 Concatenate/Combine 2 sturigs. String \$ 1 = "|flells";

" \$ 2 = "World"; connerted to string 0/P: "144 = "44 Net "4+4="8 X.

(9) Indexing an el y string-use charAt(); string \$1 = "Hello world";
Soften (\$1 [0]); // Net an away, can't
be undexed

Huse charAt (0); index o Sefler (\$1. CharAt (0)); // punt . O "element" for(i=0; i<n; i+1). Sefler (\$1. CharAt (i))

lite is the said to the

the March Land

(5) Convert String to Char array. String \$1 = "Hello"; an []; an = \$1-ged Chars (); Char ar []; (6) Compare ig strings V equal en not: use equals ()., do not (\$1== \$2) SY = " Hello"; Hells' equals "Hello"

Strings \$1 == compares . 52 \$1. equals (\$2); // true 91 == \$2) // take both ref ~ digs. Tindexof () **

(/ search a given char or gring

// returns position found or -1

// returns position eg \$1. index of ('1'); //returns 2 "Hello" \$1. index of ("lo"); // return 3 " Hello";

(8) replace (1) 11 returns a copy of original string 11 string & immutable, so doesn't modifies the original string \$1 = "Hello"; \$1. replace ('e', 'o'); Seffn (\$1); // \$1 is not changed. \$1 = \$1. replace ('d', '0') / 1 \$1 points to new. Soften (SI); // Hedo o String Builder & String Byger Classes Java. long String StripBulde StyBuffer. mutable Things

· String clars for (provide) immutable strings · It deen't to any fun to modify strings

- · Mere r 2 clanes who allows to create mutable strip. clan.
 - . These claves also plv fun to modify a string
 - . There clarres p/v growable (size can be changed)

 I modifiable strings.

String Buffer String Buldh.

Less efficient farter

Not thread Safe.

Synchronized

Fun in stringbuffer class Julia 1 14 and states

- . It plv fun who can modify a string.
- · i) Creating a string Stripbuyer &= "Hello Would";
 - 2) Change a char at given pos:

 g. set CharAt (o, 'K'); // Kello wald.

 index I new Char

\$. insert (5, "-my-"); Hello-my-world (4) reverse () 11 to reverse a string g. reverse (); M'dbrew ollett". (s) delete () delete Chan At (milex); \$= "Hello world"; g. delete (4,3); Gield; 8. delete Char At (0);

Hells World

Sells world

7

6) replace

g. replace (4,6, "is");

stat and new ship

Hello Upril

Hello Upril