O. String is basically an object that represents sequence of char values. An array of characters works same as Java string.

- > jo naam ham String ko deta hai usa "reference" bolta hai ha which is used for pointing objects.
- String object is referred to as a literal.

➤ Way to declare string known as 'Constructor'.

Constructors

- . String (chan [])
- · String (byte [])
- String (string)

- > Whenever "new" is applied the object is created in heap memory and the memory occupied by the object literal is in pool.
- Iska mtlb hai ki jab ham "new" ka help sai String define karta hai to wo phela heap mai memory create karta hai then wo pool mai bhi same data store karta hai.
- > Jab ham "without new" String declare karta hai then wo data only costant pool mai hi save hota hai.
- > Agar ham same value ka constant ko 2 alag alag variable sai declare karta hai to wo memory mai sirf ek hi place par store hota hai aur reference uska taraf point karta hai. Lekin both refernce aapas mai independant hota hai mtlb agar ham ek ki value change kara to dusra mai koi bhi change nahi hoga bas jis mai change kia hai wo new value ki taraf point karaga

String str="Welcome";

str = str. replace ('e', 'k');

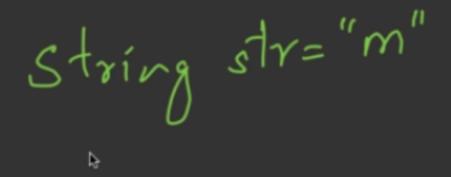
WI K / L / C / O/m/K

- ** In Java, a 'String' object is immutable, which means once it is created, its value cannot be changed.
- **Agar ham yaha dia hua kisi bhi "string class method" sa kisi string mai koi bhi change karta hai to wo use type ka new string bna ka show karta hai jis type ka input diya jata hai. Aur purana wala as it is rahta hai.

· int length() · String to Lower Case () . string toUpperCase() · string trim() string substring (int begin) string substring (int begin, int end) · string replace (char old, char New) boolean startsWith (String s) boolean endsWith (string s) char charAt(intindex) int index Of (string s) int last Index Of (Strings) boolean equals (Strings) boolean equals Ignore (ase (strings) int comparete (strings) String value Of (inti)

Matching Symbols

Regular Expression	Description
	Any character
[abc]	Exactly given letters
[abc][vz]	Either first or second set
[^abc]	Except abc
[a-z1-7]	a-z or 1-7
AIB	A or B
XZ	Exactly XZ



Method to run this

```
import java.util.Scanner;
public class regularexpression
{
    Run | Debug
    public static void main(String[] args)
    {
        Scanner sc=new Scanner (System.in);
        String str1;
        System.out.print(s:"Enter your input = ");
        str1=sc.next();
        System.out.println(str1.matches(regex:"[^xyz]"));
        sc.close();
    }
}
```

Meta Characters

Regular Expression	Description
<u>/d</u>	Digits
D	Not digits
\s -	Space
\S_	Not space
/w	Alphabets or digit
	Neither alphabet or digit

Quantifiers

Regular Expression	Description
*	0 or more time
+	One or more
?	0 or 1 time
{X}	X times
{X,Y}	Between X and Y time