Java - String class methodlari

String (matn) bu char(belgi) lar ketma-ketligidir. Javada String bu belgilar ketma-ketligidan iborat object hisoblanadi. Masalan: "Hello" 5 ta char ketma-ketligidan iborat String dir.

```
String str1 = "Hello";
String str2 = "Personal Development Process";
```

String objectini hosil qilish

String objectini hosil qilishning 2 usuli mavjud:
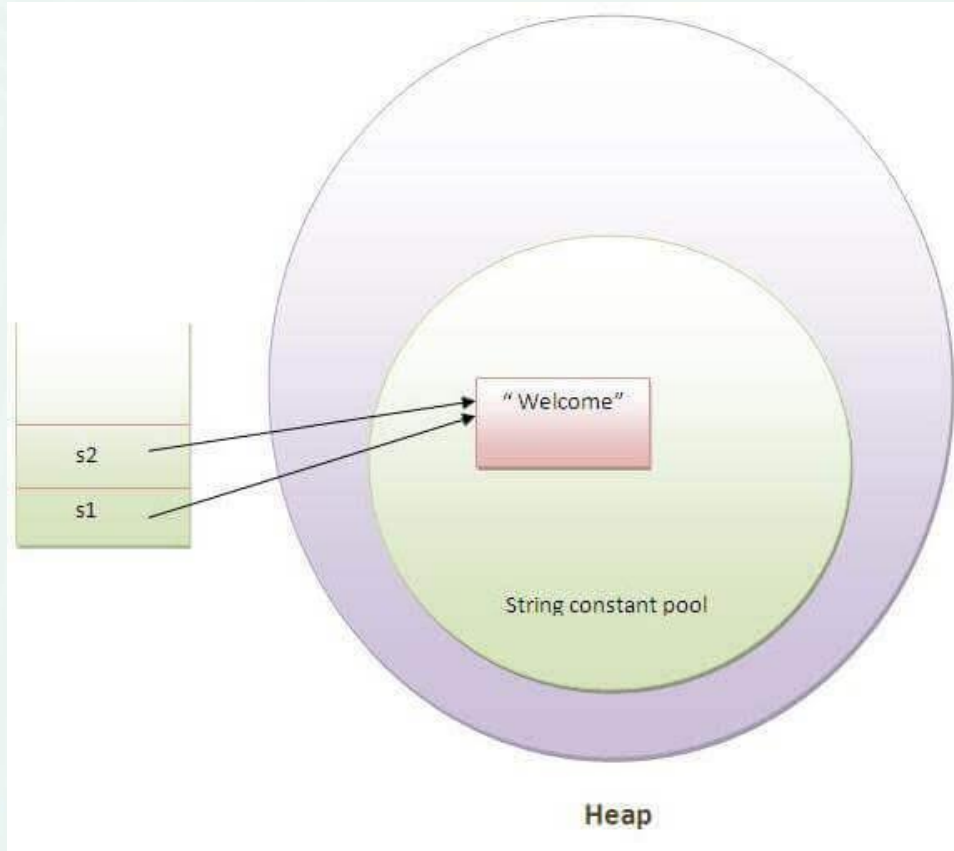- String literali yordamida
- new kalit so'zi yordamida

String literali yordamida objectini hosil qilish

```
String s1="Welcome";
String s2="Welcome";
```
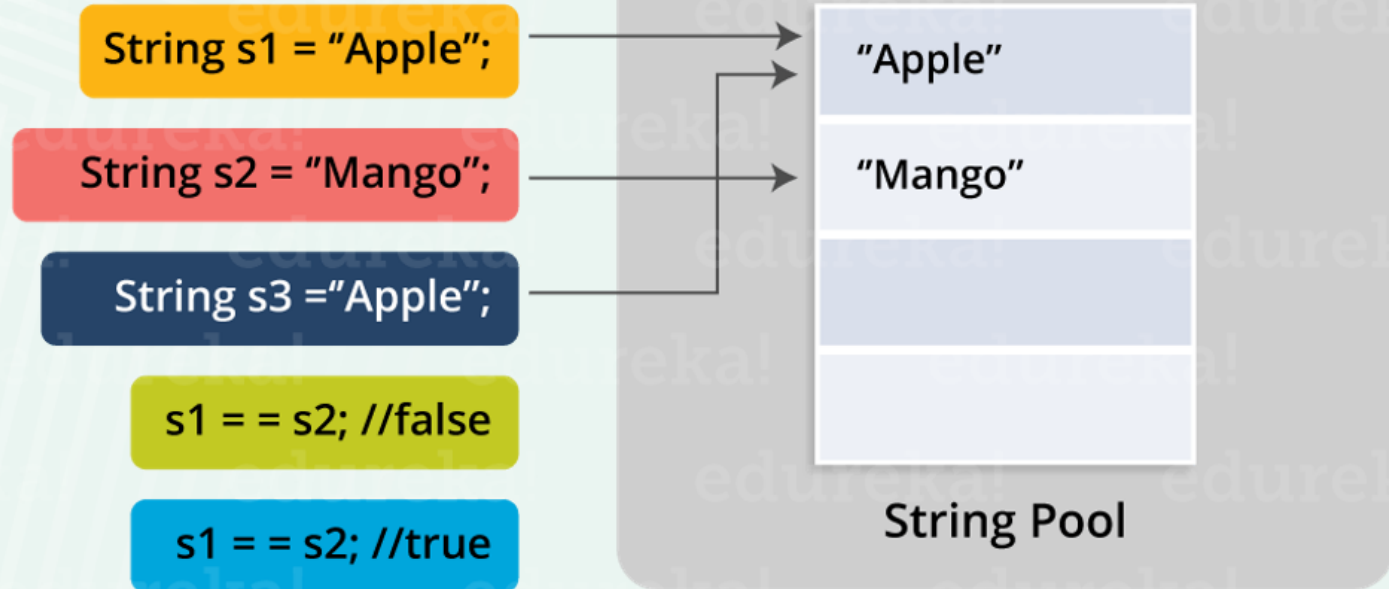
String constant pool

String literal – nima uchun?

Xotiradan unumli foydalanish

PERSONAL
DEVELOPMENT PROCESS
stay weird, stay different

Java Heap

String s1 = "Apple";

String s2 = "Mango";

String s3 ="Apple";

s1 = = s2; //false

s1 = = s2; //true

String Pool

"Apple"

"Mango"

PERSONAL
DEVELOPMENT PROCESS
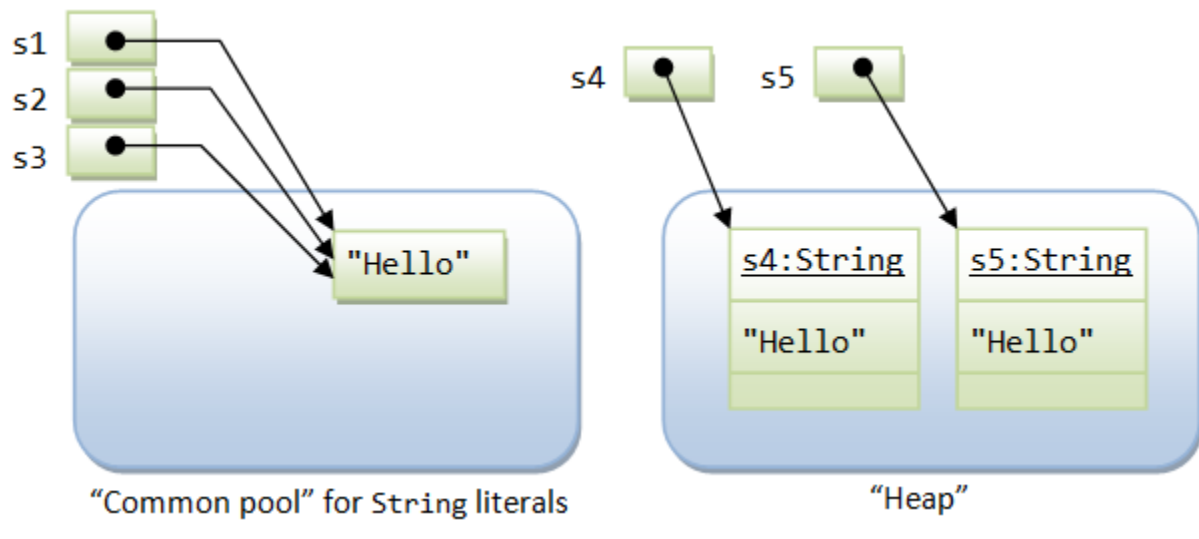stay weird, stay different

new kalit so'zi yordamida String objectini yaratish

```
String s4=new String("Hello");
String s5=new String("Hello");
```

String class methodlari

int length()

```java
public class Main {
    public static void main(String[] args) {
        String s="PERSONAL DEVELOPMENT PROCESS";
    }
}
```

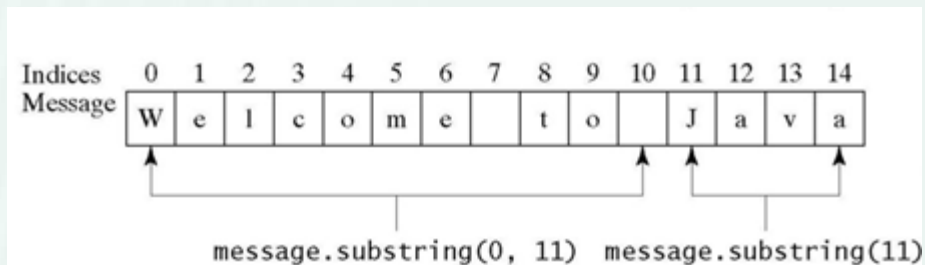| String length starts at 1 and indexes start at 0	LENGTH	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
		P	E	R	S	O	N	A	L		D	E	V	E	L	O	P	M	E	N	T		P	R	O	C	E	S	S
	INDEX	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27

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stay weird, stay different

String class methodlari

- ❖ int length()
- ❖ char charAt(int index)
- ❖ int compareTo(String anotherString)
- ❖ int compareToIgnoreCase(String str)
- ❖ String concat(String str)
- ❖ boolean endsWith(String suffix)
- ❖ boolean equals(Object anObject)
- ❖ boolean equalsIgnoreCase(String anotherString)

```
❖  int indexOf(int ch)
❖  int indexOf(int ch, int fromIndex)
❖  int indexOf(String str)
❖  int indexOf(String str, int fromIndex)
❖  int lastIndexOf(int ch)
❖  int lastIndexOf(int ch, int fromIndex)
❖  int lastIndexOf(String str)
❖  int lastIndexOf(String str, int fromIndex)
```

❖ String substring(int beginIndex)
❖ String substring(int beginIndex, int endIndex)

Indices 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14
Message | W | e | l | c | o | m | e | | t | o | | J | a | v | a |

message.substring(0, 11)   message.substring(11)

- ❖ String replace(char oldChar, char newChar)
- ❖ boolean startsWith(String prefix)
- ❖ boolean startsWith(String prefix, int toffset)
- ❖ String toLowerCase()
- ❖ String toUpperCase()
- ❖ String trim()
- ❖ static String valueOf(primitive data type x)