Java Programming



Scopes

```
public class Scopes{
  int a;
  public void doSomething() {
       int c1 = 4;
       int a1 = c1 + 9;
       a = a1 + c1;
  public void doSomethingElse(int a) {
     int c = 7;
     int b = a + c;
     int result = a + b + c;
  public static void main(String[] args){
     doSomething();
     doSomethingElse(7);
```

Scopes

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  int a;
  public void doSomething() {
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       int a1 = c1 + 9;
       a = a1 + c1; //What value is assigned to a?
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  public void doSomethingElse(int a) {
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```
String s = "Hello World!";
```

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What can we do with this?

```
String s = "Hello World";
s.length(); //10
s.charAt(4); //'o'
s.equals("Hello"); //false
s.subString(6); //"World"
s.subString(0,5); //"Hello"
String s2 = String.valueOf(14); //"14"
```

```
//normal for loop
for(int i = 0; i < s.length(); s++) {
    System.out.println(s.charAt(i));
}

//for each loop
for(char c : s.toCharArray()) {
    System.out.println(c);
}</pre>
```

```
String a = "Hello ";
String b = "World!";

// simple concatenation
System.out.println(a+b);

//concat method
System.out.println(a.concat(b));

//Stringbuilder
Stringbuilder sb = new Stringbuilder(a);
sb.append(b);
System.out.println(sb.toString());
```

char	String
`a'	"Hello"
primitive	complex
'a'=='b'	s.equals("Hello")
'a'+'b'	_
(int) 'a'	Integer.parseInt("12")

```
char c = '3';

if(Character.isDigit(c)){
    System.out.println("numeric");
} else if(Character.isLetter(c)){
    System.out.println("letter");
} else{
    System.out.println("other");
}

System.out.println("other");
}

System.out.println(isNumeric);
System.out.println(isNumeric);
```

Today's Assignment:

https://classroom.github.com/a/9OZpJXqx

