

Java Mastery - Advanced Cheat Sheet by Bayan (Bayan.A) via cheatography.com/122738/cs/31568/

Ternary Operator A shortcut to assigning one of two values to a variable depending on a given losseliation java keywords Allows defining the scope, how other parts of the code can access Like an if-then-else statement this code Question mark comes after the condition Access Levels After the question mark, two values that can return are separated by a colomes Modifiers operand2 operand1: Takes 3 operands: condition? public Second value to Same Class, same package, other subclass, other Condition we're First value to package assign if first testing against assign if first Same Class, same package, other subclass condition was false condition was true no access Same Class, same package Example: modifier int age = 20private Same Class boolean isOver18 = (age == 20) ? fals is age equal to if it is, isOver18= if false ode Comments

Operator Abbreviation	
Original	Abbreviated
result = result + 1;	result++;
result = result - 1;	result;
result = result + 2;	result += 2;
result = result * 10;	result *= 10;
result = result / 3;	result /= 3;
result = result - 2;	result -= 2;

true

20?

_				
These are us	ed to describe	e methods for quick	reference w	ith an IDE
Start comment block:	/**	End comment block:	*/	
Describe method:	Computes	sum of two arg	uments	
Describe parameters	@param a	an int operand		
	@param b	an int operand		
Describe what method returns:	@ return	the sum of a and	d b	
Method	public	static int	sum(int	a, int

Full example:

described:

/**

* Computes the sum of two arguments.

*

 \star @param a an int operand to be added

* @param b another int operand

* @return the sum of a and b

* /

public static int sum(int a, int b)



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For loop

For loops are used when you know exactly how many times you want to loop through a block of code

for	(statement 1;	statement 2;	<pre>statement 3) { }</pre>
for	(int i = 0;	i < 5;	i++) { }
	sets a variable before the loop starts	Defines the condition for the loop to run. If true, the loop will start over again, if false, the loop will	increases a value (i++) each time the code block in the loop has been executed.

For-Each Loop

Used exclusively to loop through elements in an array:

end.

System.ou t.p rin tln(i);

While Loops

A while loop will execute the enclosed statement as long as a boolean condition remains true.

Syntax: while (boole an con dition) statemen

The condition must be boolean.

If the condition never becomes false, the loop never exits, and the program never stops.

When do you use each loop

ю ююр	go through the loop.
while loop	in almost all other cases.
do-while	if you must go through the loop at least once before it

makes sense to do the test.

for loop if you know ahead of time how many times you want to

ArrayList

loop

Crea	te a	arra	γl	ist	

ArrayL	ıst	<.I.À	pe>	varName =	new	ArrayL	ist
e.g.							
ArrayL	ist	<st< td=""><td>rin</td><td>names =</td><td>new</td><td>ArrayL</td><td>ist</td></st<>	rin	names =	new	ArrayL	ist
g>							

Add object to arraylist	varNam e.a	dd(object)
e.g.	names.a dd	("Al ice ")
Get size of arraylist:	varNam e.s	ize();

e.g.	names.s ize();
Change object with index	<pre>varNam e.s et(index, object);</pre>

e.g.	<pre>names.s et(0, " Ann a");</pre>
Remove object with index	varNam e.r emo ve(index)
e.a.	names.r em ove(0)

Passing as a parameter public static double averag e(A example: e r> x)



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Arrays	
Create array:	type[] varName = new type[size];
e.g.	double[] arr= new double[5]; //5 objects
Get length of array:	varName.length
e.g.	arr.length
Access object with index	varName[index]
	arr[1]

	an[i]
Reading in	put
Structure	
Import Scanner class:	<pre>import java.u til.Sc anner;</pre>
Create a scanner, assign it to a variable:	<pre>Scanner scanner = new Scanne r(S yst em.i n);</pre>
	new Scanne r() creates a new one
	System.in says scanner is to take input from the keyboard
Request	System.ou t.p rin t("P lease input data:

variable.	
	new Scanne r() creates a new one
	System.in says scanner is to take input from the keyboard
Request user to input number	<pre>System.ou t.p rin t("P lease input data: ");</pre>
Read in number:	<pre>myNumber = scanne r.n ext Int();</pre>
Read in String	String myString = scanner.nextLine();
Read in double	String myDouble = scanner.nextDouble();
Read in char:	char myChar = scanner.next().charAt(0);

Inside any loop, the break statement will immediately get you out of the loop. If you are in nested loops, break gets you out of the innermost loop It doesn't make any sense to break out of a loop unconditionally; you should do it only as the result of an if test break should not be the normal way to leave a loop Use it when necessary, but don't overuse it. Example: for (int i = 1; i <= 12; i++) { if (badEg g(i)) break;

Inheritance	
subclass (child)	the class that inherits from another class
superclass (parent)	the class being inherited from
To inherit from a class we use	extends
class A extends B	means class A (subclass) inherits attributes and methods from class B(superclass)





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