

Cheatsheet Java

Comments
Single-line Comment: 1 String txt = "Hello!"; 2 //this is a Comment 3 System.out.println(txt); 4
Multi-line Comment: 1 String txt = "Hello!"; 2 /*Comments will not be 3 executed */ 4 System.out.println(txt);

Control structures
1 if(condition1){ 2 /*if condition1 true, 3 execute*/ 4 } 5 else if(condition2){ 6 /*if condition1 false and 7 condition2 true, execute */ 8 } 9 else{ 10 //if everything false, execute 11 }

Loops
1 for(int i=0; i<10; i++){ 2 //execute 10 times 3 } 4 while(condition){ 5 //execute as long as condition 6 } 7 do{ 8 //execute at least once 9 }while(condition);

Switch
1 switch(expression){ 2 case 1: 3 //execute if expression==1 4 break; 5 case 2: 6 //execute if expression==2 7 break; 8 default: 9 /*execute if expression is 10 not 1 or 2 */ 11 break; 12 }

Types			
Primitive data types:			
Type	Size	Type	Size
byte	8 bit	float	32 bit
short	16 bit	double	64 bit
int	32 bit	Type	Value
long	64 bit	char	'a', 'G'
		boolean	true, false
		void	-
Typecasting: <i>byte</i> → <i>short</i> → <i>char</i> → <i>int</i> → <i>long</i> → <i>float</i> → <i>double</i>			
Non-Primitive data types:			
Type	Value		
String	"Hello World!"		
Array	int[] myNum = {10, 20, 30, 40};		

Declaration, Initialisation
Declaration: int a; String txt; <Type>< Name>;
Initialisation: int b = 50; int b = a; <Type><Name>=<Literal/Variable>;
Assignment: a = b; txt = "abc";

Operations		
Arithmetic:		
Operation	Example	
+	3 + 5 == 8	
-	7 - 2 == 5	
*	4 * 2 == 8	
/	7 / 2 == 3	
% (Modulo)	72 % 10 == 2	
Comparison:		
Operator	Math	Example
>	>	5 > 2
>=	≥	5 >= 2
<	<	10 < 21
<=	≤	5 <= 5
==	=	5 == 5
!=	≠	-32 != 32