Cheatsheet Java

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

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

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

11 }

```
Switch
1switch(expression){
   case 1:
  //execute if expression==1
   case 2:
   //execute if expression==2
break;
default:
/*execute if expression is
        not 1 or 2 */
      break;
```

```
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
                                'a', 'G'
                   char
                                true,
                   boolean
                               false
                   void
Typecasting:
                byte \rightarrow short \rightarrow
char \ \rightarrow \ int \ \rightarrow \ long \ \rightarrow \ float \ \rightarrow
Non-Primitive data types:
 Type
            Value
 String
            "Hello World!"
            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
>=	\geq		5 >= 2
<	<		10 < 21
<=	> < < =		5 <= 5
==	=		5 == 5
!=	≠		-32 != 32

```
1//Delaration and Implementation
2<ret-type> <func-name>(<para-type>
     // function bed
     // function body //execute
     return <expression>;
7//Function call
8<func-name>(<argument>, ...);
```