JAVA Cheat Sheet

by pca221 via cheatography.com/25815/cs/8969/

Data Types

byte	8 bits	-2^{7} to $2^{7} - 1$
short	16 bits	-2^{15} to $2^{15} - 1$
int	32 bits	-2^{31} to $2^{31} - 1$
long	64 bits	-2^{63} to $2^{63} - 1$
boolean	true \ false	
char	16 bit unicode	-2^{15} to $2^{15} - 1$
float	32 bit decimal	-2^{31} to $2^{31} - 1$
double	64 bit decimal	-2^{63} to $2^{63} - 1$

Encapsulation

public	user can see
private	hide from user

Swap

```
int temp = e1;
e1 = e2;
e2 = temp;
```

While loop

```
while(condition) {
//codes
}
```

For Loop Array

```
string word = "Hello";
for (char c: word.t oCh arA rra y()){
          sys tem.ou t.p rin tln()
         ...
}
```

Class

```
public class ABCD {
          public A () {
                    //codes
         }
          public void B() {
                    //codes
         }
}
*public A = default, run automatic
*public void B = need call
```

Commands

\n	new line
\t	tab
\"	"
\'	'
\\	\

Do - While loop

```
do {
       //codes
} while (condi tion);
```

For Loop List

```
int mylist = {100,200,300,400};
for(int item = 0; item< mylist.le ngth; iterm++){
    //codes
}
for(int item mylist) {
    //codes
}
```

Abbreviation

JVM	JAVA Virtual Machine
JRE	JAVA Runtime Environment
JDK	JAVA Development Kit
bytecode	intermediate level long
compiler	JAVA -> Bytecode
Java Runtime	bytecode -> machine
native compiler	directly to machine

Array

```
int[] mylist = new int[2]
mylist[0] = 100;
mylist[1] = 200;
int[] mylist = {100, 200}
```

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Published 9th September, 2016.
Last updated 9th September, 2016.