Basic Core Cheat Sheet

Primitive Data Types

Data Type	Size	Range
byte	8	-128..127
short	16	-32,768..32,767
int	32	-2,147,483,648.. 2,147,483,647
long	64	-9,223,372,036,854,775,808.. 9,223,372,036,854,775,807
float	32	3.4e-0.38.. 3.4e+0.38
double	64	1.7e-308.. 1.7e+308
char	16	Complete Unicode Character Set
Boolean	1	True, False

Java Operator

Operator Type	Operators
Arithmetic	+, – , *, ? , %
Assignment	=, +=, -=, *=, /=, %=, &=, ^=, |=, <<=, >>=, >>>=
Bitwise	^, &, |
Logical	&&, ||
Relational	<, >, <=, >=,==, !=
Shift	<<, >>, >>>
Ternary	?:
Unary	++x, –x, x++, x–, +x, –x, !, ~

Comments :

```
// Single line    /*  Multiple line     */
```

Java Variables:

{public | private} [static] [type] [name] =[expression | value];

Java Methods:

{public | private} [static] {type | void} name(arg1, ..., argN){statements}

Basic Java Program:

```
public class World{
  public static void main(String[] args)
   { System.out.println("Hello Java cheat Sheet!");}}
```

Compile and execute Java program

Save as JavaFile.java
Compile : javac JavaFile
Execute: java JavaFile

Iterative Statements

```
// for loop
for (condition) {expression}
// for each loop
for (type name: array|collection) {expression}
// while loop
while (condition) {expression}
// do while loop
do {expression} while(condition)
```

Decisive Statements

```
//if statement
if (condition) {expression}
//if-else statement
if (condition) {expression} else {expression}
//Ternary Operator
(condition) ?{true expression} : {falseexpression}
//if -else if -else statement
if (condition) {expression} else if (condition)
{expression} else {expression}
//switch statement
switch (var)
{ case 1: expression; break;
  case 2: expression;   break;
...
 default: expression; break; }
```

Java Arrays:

Single Dimensional (1-D)
Initializing:

type[] varName= new type[size];

Declaring:

type[] varName= new type[]{values1, value2,...};

Multi Dimensional (2-D)

Initializing:

datatype[][] varName = new dataType[row][col];

Declaring:

datatype[][] varName = {{value1, value2....},{value1, value2....}..};

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