## Core Java Cheat Sheet - Basics Of Java Programming

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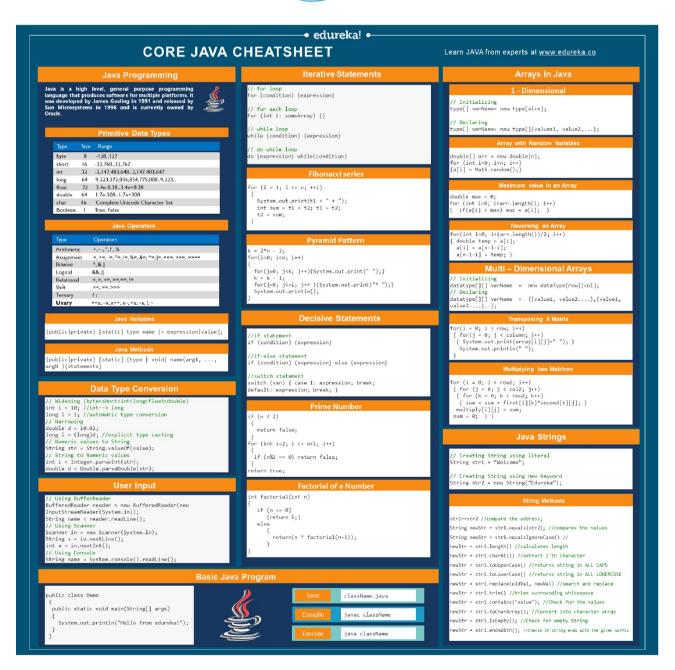
Are you an aspiring *Java developer*? Well, if you are, then I bet you can make use of this *Java* Cheat Sheet. *Java* is known for its pre-built classes and libraries and sometimes, keeping a track of them becomes a little tricky. So, here I bring you the Core Java Cheat Sheet.

This cheat sheet will act as a crash course for Java beginners and help you with various fundamentals of Java.

## Core Java Cheat Sheet

Java is an open source programming language that has been changing the face of the IT market since ages. It is widely preferred by the programmers as the code written in Java can be executed securely on any platform, irrespective of the operating system or architecture of the device. The only requirement is, Java Runtime Environment (JRE) installed on the system.





## Primitive Data Types

Let's start off by learning the primitive **data types** that Java offers:

Data Type	Size	Range
201011770	0.20	
byte	8	-128127
short	16	-32,76832,767
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

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Logicai	&&,
Relational	<, >, <=, >=,==, !=
Shift	<<, >>, >>>
Ternary	?:
Unary	++x, -x, x++, x-, +x, -x, !, ~

Java Variables

<u>Variables</u> in Java refers to the name of the reserved memory area. You need variables to store any value for the computational or reference purpose.

There are 3 types of variable in Java:

- 1. Local Variables
- 2. Instance Variables
- 3. Static Variables

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

Java Methods

A method is a set of code that is grouped together to perform a specific operation. A method is completed in two steps:

- 1. Method Initialization
- 2. Method Invocation

A method can be invoked either by calling it by reference or by value.

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

**Data Conversion** 

The process of changing a value from one data type to another type is known as data type conversion. Data Type conversion is of two types:

- 1. Widening: The lower size datatype is converted into a higher size data type without loss of information.
- 2. Narrowing: The higher size datatype is converted into a lower size data type with a loss of information.

```
// Widening (byte<short<int<long<float<double)</pre>
int i = 10; //int--> long
long l = i; //automatic type conversion
// Narrowing
double d = 10.02;
long 1 = (long)d; //explicit type casting
// Numeric values to String
String str = String.valueOf(value);
// String to Numeric values
int i = Integer.parseInt(str);
double d = Double.parseDouble(str);
```

User Input

Java provides three ways to take an input from the user/ console:

- 1. Using BufferReader class
- 2. Using Scanner class
- 3. Using Console class

```
// Using BufferReader
BufferedReader reader = new BufferedReader(new InputStreamReader(System.in));
String name = reader.readLine();
// Using Scanner
Scanner in = new Scanner(System.in);
String s = in.nextLine();
int a = in.nextInt();
// Using Console
String name = System.console().readLine();
```

Basic Java Program

A basic program in Java will consist of at least the following components:

Core Java Cheat Sheet - Basics Of Java Programming 1. Classes & Objects

- 2. Methods
- 3. Variables

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Finally, execute the program using below code:

java className

Flow Of Control

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