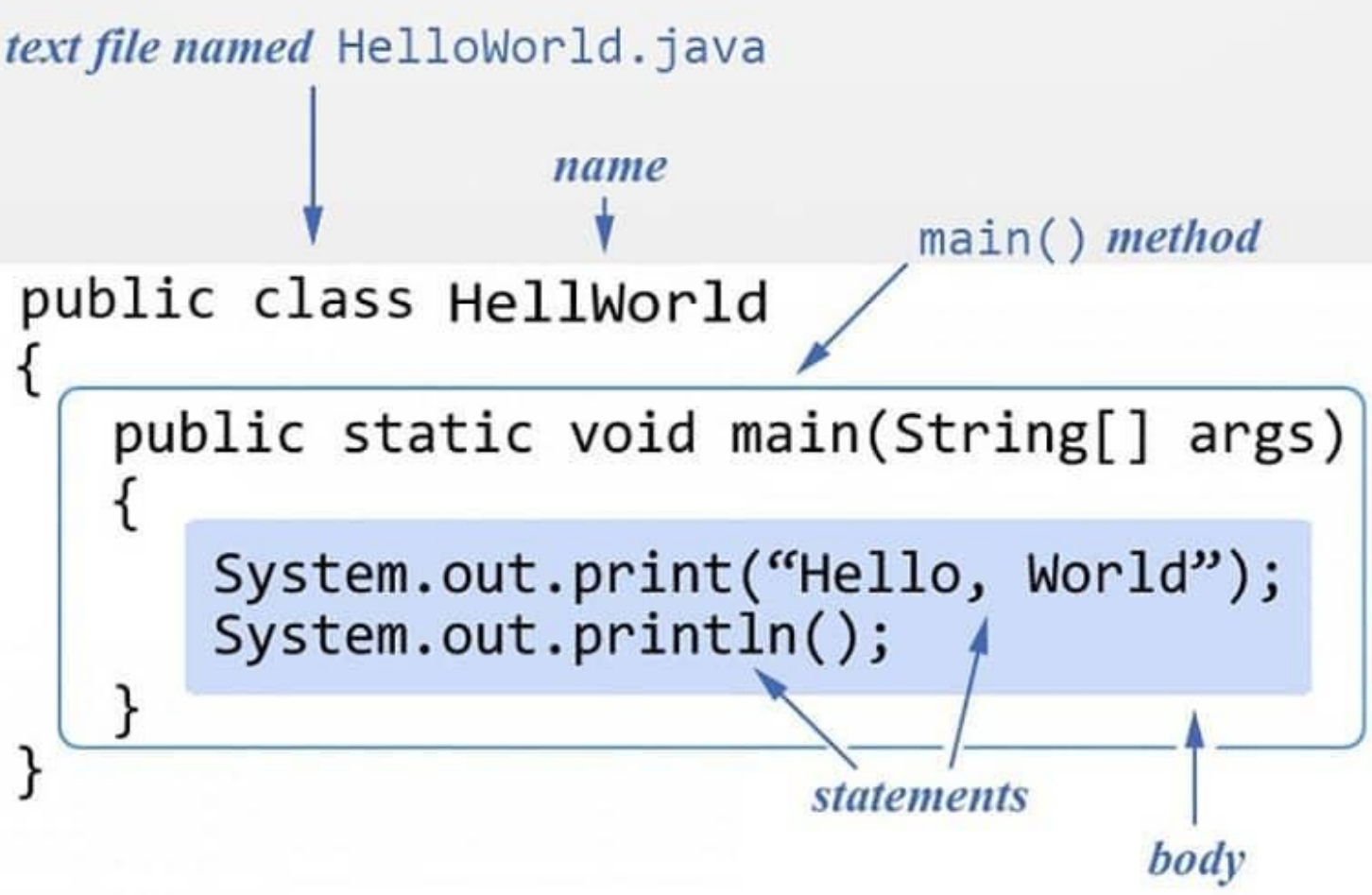
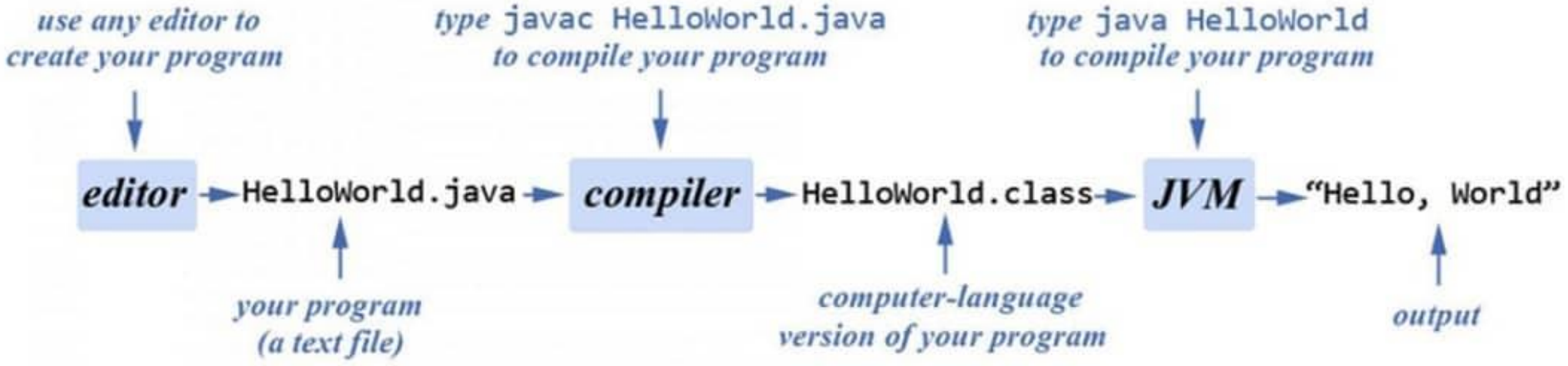

Java
CHEATSHEET

Basic code structure



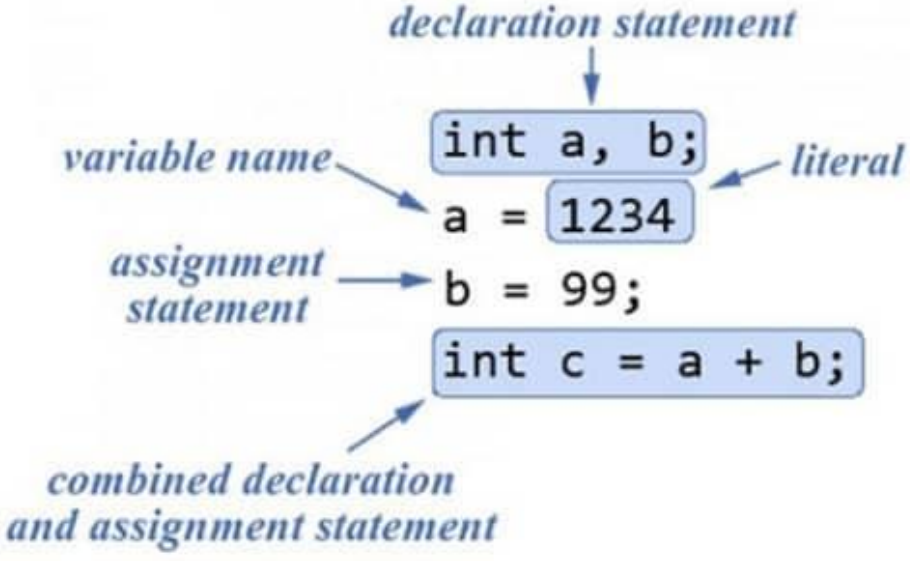
Input and output



Date types

type	*set of values*	*common operators*	*sample literal values*
`int`	intergers	`+ - * / %`	`99 -12 2147483647`
`double`	floating-point numbers	`+ - * /`	`3.14 -2.5 6.022e23`
`boolean`	boolean values	`&& || !`	`true false`
`char`	characters		`'A' '1' '%' '/n'`
`String`	sequence of characters	`+`	`"AB" "Hello" "2.5"`

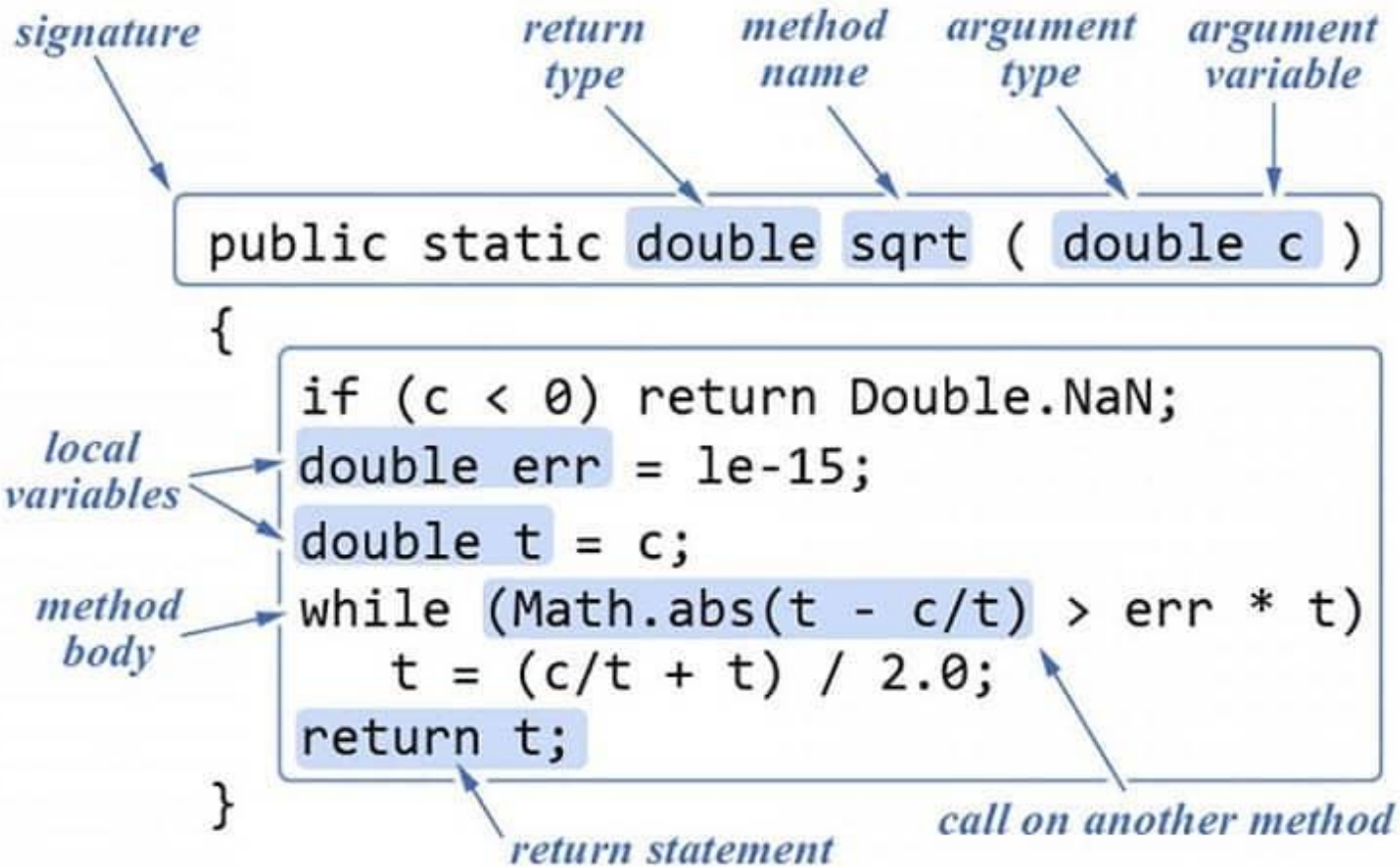
Assignment status



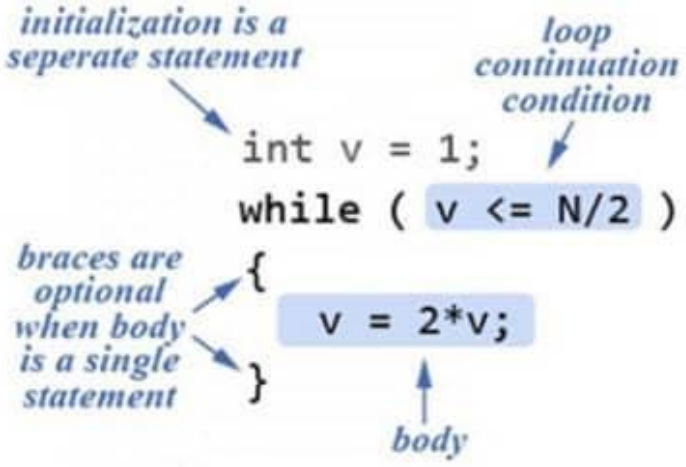
Booleans

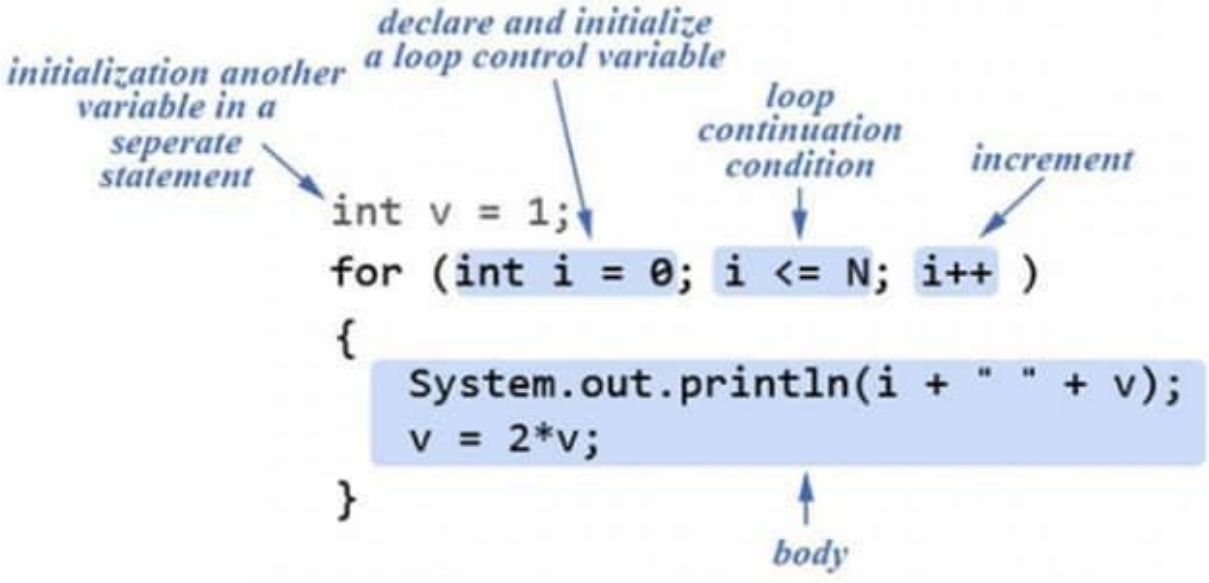
values	true or false
literals	`true` `false`
operations	and or not
operators	&& || !

Functions


signature
return type
method name
argument type
argument variable
public static double sqrt (double c)
{
if (c < 0) return Double.NaN;
double err = 1e-15;
double t = c;
while (Math.abs(t - c/t) > err * t)
t = (c/t + t) / 2.0;
return t;
}
local variables
method body
return statement
call on another method

Loops


initialization is a seperate statement
loop continuation condition
int v = 1;
while (v <= N/2)
braces are optional when body is a single statement
{
v = 2*v;
}
body


initialization another variable in a seperate statement
declare and initialize a loop control variable
loop continuation condition
increment
int v = 1;
for (int i = 0; i <= N; i++)
{
System.out.println(i + " " + v);
v = 2*v;
}
body