

## Java Fundamentals Cheat Sheet

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Java Data Types	
byte / short / int / long	-123, 10
float / double	235.13
char	'a', 'A', '\$', '-'
boolean	true, false
String	'Alice', 'A234t'

## Java Control Structures

```
If Statement
if (expression) {
statements
} else if ( expression ) {
statements
} else {
statements
While Loop
while (expression) {
statements
}
Do-While Loop
do {
statements
} while ( expression );
For Loop
for ( int i = 0; i < value>; ++i) {
statements
For Each Loop
for (var: collection) {
statements
Switch Statement
switch (expression) {
case value:
statements
break;
case value2:
statements
break:
default:
statements
```

```
Java Control Structures (cont)
```

```
Exception Handling

try {
    statements;
} catch (ExceptionType e1) {
    statements;
} catch (Exception e2) {
    catch-all statements;
} finally {
    statements;
}
```

## **Defining Methods**

How to define any method in a class?

A class method can be declared/defined using the syntax: public|private [static] <return\_type> <method\_name>([arguments])

How to call a static method?

Static methods are also called as class methods and they can be called directly without creating any instance.

How to call any instance method?

```
Instance or non-static method can only be called after
instantiating the object. So first create an object from a
class using <class_name> <obj_name> = new <class_na-
me>() and then call the method with this object. Ex.
Scanner scanner = new Scanne r(S yst em.in
);
int number = scanne r.n ext Int();
```

