

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_name>()*** and then call the method with this object. Ex.

```
Scanner scanner = new Scanner(System.in);
int number = scanner.nextInt();
```



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Published 16th December, 2022.

Last updated 16th December, 2022.

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