

## Java for programmers (code: J-BASE)

### Overview

Java has nowadays become one of the most popular programming languages. It's popularity can be traced to its object-oriented approach, robustness, security, ease of use - and possibility of writing OS-independent code. Another of its strengths is an abundance of available libraries; throughout this course, participants will learn not only the syntax, but also the most useful libraries.

### Ask for details

Phone +44 203 608 6289

info@alx.training

### Duration

4 days

### Agenda

1. Day 1
  - Java and its versions
  - Installing a virtual machine. Compiling and running programs.
  - An introduction to object-oriented programming and fundamental design patterns.
  - Structural and object-oriented features of Java. Basic features (e.g., garbage collector).
  - Dividing the code into classes, packages, files, directories and archives.
  - Basic tools, Java development platform.
2. Day 2
  - Using and creating documentation.
  - Error handling: exceptions, common pitfalls and best practices.
  - Introduction to testing: assertions, an overview of more advanced solutions (such as JUnit).
  - Collections.
  - Generic classes.
3. Day 3
  - Input / Output: streams and their applications, Decorator pattern, objects serialization.
  - Threads: life cycle, synchronization, concurrent programming fundamentals.
  - Automatic builds (Ant, Maven).
  - RTTI, introspection, JavaBeans.
4. Day 4
  - Graphical user interface in Java.
  - Swing: windowed applications and applets.
  - Observer pattern.
  - Graphical user interface tools.

### Target audience and prerequisites

Programming in whatever computer language. At least basic knowledge of object programming concepts is recommended.

### Certificates

Course participants receive completion certificates signed by ALX.

### Locations

- Online (English) – your home, office or wherever you want
- Warsaw (English) – Jasna 14/16A
- any other location (London, UK, EU) on request

## Price

760 EUR

The price includes:

- course materials,
- snacks, coffee, tea and soft drinks,
- course completion certificate,
- one-time consultation with the instructor after course completion.

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