

# Agenda Java Training

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- **Object-Oriented Programming**

- Syntax and Semantics
- Types of programming languages
- Advantages of object-oriented programming

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- **Java Basics**

- Variables and assignments
- Using primitive types
- Type hierarchy and conversions
- Expressions and arithmetic
- Operators
- Control flow
- Basic data structures

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- **Object-Oriented Concepts**

- Learning the base concepts of Java with fields, constructors, etc.
- Using inheritance
- Using immutable data structures
- Call by value and call by reference

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- **Advanced OOs**

- Checked and unchecked Exceptions
- Abstract classes and interfaces
- Polymorphism
- Interfaces
- Equality and identity
- Using Generics
- Collections & Sets
- Using the reflection API
- Information hiding

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- **Optional: Efficiently using the Eclipse IDE**

- Using the debugger
- Testing with JUnit