

Java Course Content

Section 1: Started with Java

- What you need to get started
- The Netbeans Software
- Java Comments
- The Structure of Java Code
- How to Run your Java Programs
- Printing to the Output Window
- Sharing your programs with others

Section 2: Variables

- Integer Variables in Java
- Double Variables
- Short and Float
- Operator_Precedence
- Java String Variables
- Getting Input from the User
- Option Panes

Section 3: Control Flow

- If Statements in Java
- If Else Statements
- Boolean Values
- Switch Statements
- Java for Loops
- Java While Loops

Section 4: Arrays in Java

- Java Arrays
- Arrays and Loops
- Sorting Arrays
- Arrays and Strings
- Multi-Dimensional Arrays
- Array Lists

Section 5: Java String Methods

- Java and Strings
- Upper and LowerCase
- The compare Method
- The concat Method
- The indexOf Method
- The substring Method
- The equals Method
- The charAt Method
- The replace Method
- Printing Formatted Strings

Section 6: Java Methods

- Java Methods
- Calling your Java Methods
- Passing Values to Methods
- Multiple Method Parameters

Section 7: Java OOP

- Writing your own Java Classes
- Field Variables
- The Java Class Constructor
- Accessing Class Variables
- More on Java Class Methods
- Java and Inheritance
- Java Enumerations (intermediate lesson)
- A Random Number generator program (intermediate lesson)

Section 8: Java Error Handling

- Error Handling and Exceptions
- Handling Logic Errors in Java

Section 9: Dealing with Text Files in Java

- Open and Read a Text File in Java
- Write to a Text File in Java

Section 10: A Java Calculator Project

- JavaFX
- The Different Form Views in IntelliJ IDE
- Add a Text Box to a Java Form
- Add a Button to the Form
- Button Properties
- Java Form Events
- Coding for the Plus Button
- Coding for the Equals Button
- Coding for the Clear Button
- Subtract, Divide, Multiply Buttons

Section 11: More Java Form Controls

- Java and Combo Boxes
- Java Check Boxes
- Radio Buttons
- Adding Menus to a Java Form
- Open File Dialogue Boxes
- Opening Files
- Save File Dialogue Boxes

Our core Java programming tutorial is designed for students and working professionals. Java is an object-oriented, class-based, concurrent, secured and general-purpose computer-programming language. It is a widely used robust technology.