

Java 6-Week Study Roadmap

Week 1: Setup & Core Basics

- Install JDK & IntelliJ IDEA
- Learn: println, main(), variables, data types, operators, Scanner input
- Mini Project: Simple Calculator

Week 2: Loops & Arrays

- Learn for, while, do-while loops
- Learn arrays and loops with arrays
- Mini Project: Grade Calculator

Week 3: Methods & OOP Foundations

- Learn methods and parameters
- Classes, objects, constructors, encapsulation (getters/setters)
- Mini Project: BankAccount class

Week 4: Inheritance & Collections

- Inheritance, method overriding, polymorphism
- Interfaces, ArrayList, HashMap
- Mini Project: Student Management System

Week 5: Files, Exceptions & Packages

- Exception handling with try/catch
- File I/O and saving data to files
- Mini Project: Todo List App

Week 6: Capstone Project

- Choose one major project:
 1. ATM Simulator
 2. Library Management System
 3. Student Result Manager
 4. CLI Game

Tip: Code daily, even small exercises. Practice debugging and build confidence!