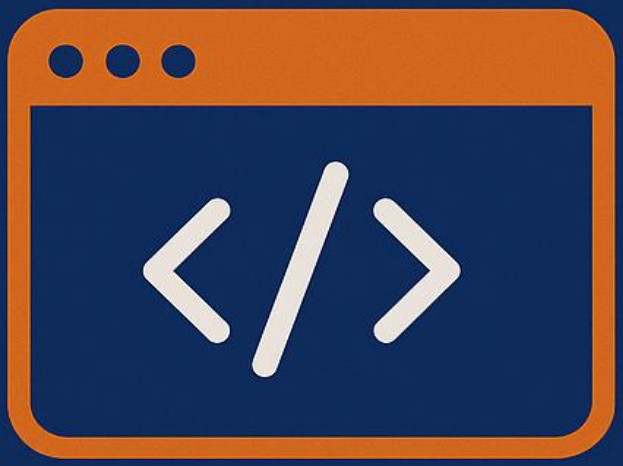
# CODE THAT WORKS



SHERAZ AKHTAR

# Course Outline

## ■ Your Journey to Confident Java Coding

Welcome to **“Code That Works”**! This immersive course is designed for aspiring developers and tech enthusiasts who want to build real programming skills and create projects that actually work. We’ll guide you step-by-step through the fundamentals of Java, focusing on hands-on application and building a portfolio from day one.

No prior coding experience is needed – just your curiosity and commitment!

## ■ What You’ll Gain From “Code That Works”:

- **Hands-On Mastery**: Move beyond theory to build actual Java programs and projects.
- **Problem-Solving Power**: Learn how to think like a programmer and debug your own code.
- **Project Portfolio**: Create several functional console-based projects to showcase your new skills to employers.
- **Confidence to Build**: Gain the self-assurance to tackle new coding challenges and continue your learning journey.
- **Mentorship & Support**: Direct guidance from an experienced instructor and a supportive learning community.

## ■ Your Learning Journey: Course Modules

### Module 1: Your First Lines of Code & Setting Up

**What you’ll learn**: How programming works, setting up your essential coding playground (Java & your coding software), and writing your very first Java programs.

*Project you’ll build: A “Personalized Greeter” – make your computer say hello to the world, and to you!*

### Module 2: Storing & Manipulating Data

**What you’ll learn**: How computers store information (variables, data types) and perform basic math. You’ll also learn how to get input from the user.

*Project you’ll build: A “Basic Calculator” – capable of performing simple operations based on user input.*

### Module 3: Making Your Code Smart (Decisions & Loops)

**What you’ll learn**: How to make your programs make decisions (if/else statements), handle multiple choices (switch statements), and repeat tasks efficiently (for and while loops).

*Project you’ll build: A fun “Number Guessing Game” – where your program clues the user in on their guess.*

## Module 4: Building Reusable Blocks (Functions/Methods)

What you'll learn: How to organize your code into reusable "methods" (functions), making your programs cleaner, more powerful, and easier to manage.

*Project you'll build: An "Enhanced Calculator" – using methods to manage its different operations more effectively.*

## Module 5: Object-Oriented Power (Introduction to OOP)

**What you'll learn**: Dive into the world of Object-Oriented Programming (OOP) – a powerful way to design programs using "objects" (like digital robots!) that have properties and behaviors.

*Project you'll build: A "Simple Student/Product Management System" – using custom objects to organize data efficiently.*

## Module 6: Managing Collections of Data

**What you'll learn**: How to handle lists of information using "arrays" and dynamic "ArrayLists." You'll learn how to store and access multiple items, including your custom objects.

*Project you'll build: A "Student Grade Analyzer" – where you'll store and analyze grades for multiple students using collections.*

## Module 7: Finding & Fixing Problems (Errors & Debugging)

**What you'll learn**: A critical skill! Understand common programming errors, how to read error messages, and how to use powerful debugging tools in your software to find and fix bugs like a pro.

*Project you'll build: A "Basic Command-Line Contact List" – consolidating all your learned skills, where debugging them will be part of the fun challenge!*

## Module 8: Your Next Steps & Future in Tech

**What you'll learn**: A celebration of your achievements, a recap of your new skills, and a roadmap for continuing your coding journey into more advanced Java topics and specialized fields.

*Project you'll build: Walk away with your completed projects and a well optimized LinkedIn profile!*

## ■ How You'll Learn:

• **Interactive Live Sessions**: Join our instructor for engaging 1-hour sessions (2-3 times per week) with live coding, Q&A, and guided practice.

• **Hands-On "DIY" Activities**: Weekly coding exercises and challenges to immediately apply what you learn.

• **Project-Based Learning**: Build a working project in almost every module, seeing your skills come to life.

• **Personalized Support**: Direct access to your instructor and a supportive community for questions and collaboration.

**Ready to Make Your Code Work? Join “Code That Works” and start building your future today!**

Register Now