

Agenda: 22 July 2025

9:00am – 1:00pm

- Introduction to Java: A historical perspective, core applications, and the Java ecosystem.
- Installing and Configuring the Java Development Kit (JDK).
- Writing, Compiling, and Executing Your First Java Program.
- Exploring Fundamental Data Types, Variables, and Operators.

Labs

- Basic Calculator
- Bug Detective
- DNA Sequencing
- Fizz Buzz

2:00pm – 5:00pm

- Object-Oriented Programming (OOP) Principles in Java.
- Defining Classes and Objects as Blueprints and Instances.
- Understanding Method Encapsulation and the this Keyword.
- Designing Constructors for Object Initialization.
- Constructing Control Flow Logic with Conditional Statements (if-else) and Loops (for, while).

Labs

- Language Families
- Loan Payment Calculator
- Mad Libs