**Java Programming**

**Month 1: Introduction to Java Basics**

Week 1: Introduction to Programming and Java

* + Overview of programming concepts
  + Installing Java and an IDE
  + First Java program

Week 2-3: Java Basics

* + Variables, data types, and operators
  + Control flow (if statements, loops)
  + Functions and basic input/output

Week 4-5: Object-Oriented Programming (OOP) in Java

* + Introduction to classes and objects
  + Encapsulation, inheritance, and polymorphism

Week 6: Java Collections Framework

* + Introduction to collections (lists, sets, maps)
  + Working with ArrayLists and HashMaps

**Month 2: Advanced Java Concepts and Project Work**

Week 1-2: Exception Handling and File I/O

* + Handling exceptions in Java
  + Reading and writing to files

Week 3-4: Java GUI (Graphical User Interface) Programming

* + Basics of JavaFX for building GUI applications
  + Event handling and UI components

Week 5-6: Final Project and Web Development with Java (Optional)

* + Guided final project work
  + Introduction to web development with Java (e.g., Servlets and JSP)