

Java Programming Course

Introduction to Java Programming

Java is a popular, object-oriented programming language used for web, mobile, and desktop applications.

Basic Syntax

Every Java program has a class and main method.

Example:

```
public class Main {  
    public static void main(String[] args) {  
        System.out.println("Hello, World!");  
    }  
}
```

Variables and Data Types

Store data using types like int, double, char, boolean.

Control Flow

Use if-else, switch, loops to control program logic.

Object-Oriented Concepts

Classes, objects, inheritance, polymorphism, encapsulation.

Exception Handling

Handle errors gracefully with try-catch blocks.

Practice Exercises

- Write a program to print numbers from 1 to 10.
- Create a class to represent a student with attributes and methods.

- Handle exceptions when dividing numbers.