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## Java Programming

### Module 1: Foundations (Beginner)

- Introduction
- History Of Computer Programming
- Categories Of Programming Languages
- Condensed History Of Java
- Software Life Cycle

### Module 2: Terms and Tools (Beginner)

- Programming General Terms
- Downloading And Installing Java
- Programmer Editors And Integrated Development Environments Part 1
- Programmer Editors And Integrated Development Environments Part 2
- Installing Eclipse

### Module 3: Identifiers, Variables, and Data Types (Beginner)

- Understanding Identifiers
- Unicode And Java Syntax
- Variables Constants And Literals
- Field Member And Variable Components
- Primitive Data Types Part 1
- Primitive Data Types Part 2
- Primitive Data Types Part 3
- Operators Part 1
- Operators Part 2
- Escape Characters
- Type Conversions And Type Casting
- Java Reserved Words
- Commenting
- Abstract Data Types

### Module 4: Object-Orientated Programming (Intermediate)

- Object Oriented Programming
- What Is An Object?
- Eclipse Lab

### Module 5: Predefined Classes (Intermediate)

- String Class Part 1

- String Class Part 2
- String Class Part 3
- Date Class
- Simple Date Format Class
- Scanner Class Part 1
- Scanner Class Part 2
- Decimal Format Class Part 1
- Decimal Format Class Part 2
- JFrame Class
- Container Class Part 1
- Container Class Part 2

## Module 6: Methods Part 1 (Intermediate)

- Methods
- Naming Methods
- Implementation Method Hiding
- Method Variables And Literals
- Invoking A Method

## Module 7: Methods Part 2 (Advanced)

- Methods And Multiple Arguments
- Methods Lab
- Method Overloading

## Module 8: Constructors (Advanced)

- Creating Objects
- Constructor Declarations
- Overloading And Default Constructors

## Module 9: Control of Flow (Advanced)

- While Loop
- While Statement
- For Loop

## Module 10: Arrays and Exceptions (Advanced)

- Array Structures
- Constants And Array Sizes Part 1
- Constants And Array Sizes Part 2
- Exceptions And The Try Catch Block
- Conclusion