Key Concepts for MapReduce Programming

Here are the key Java concepts I would recommend focusing on for learning to develop MapReduce programs.

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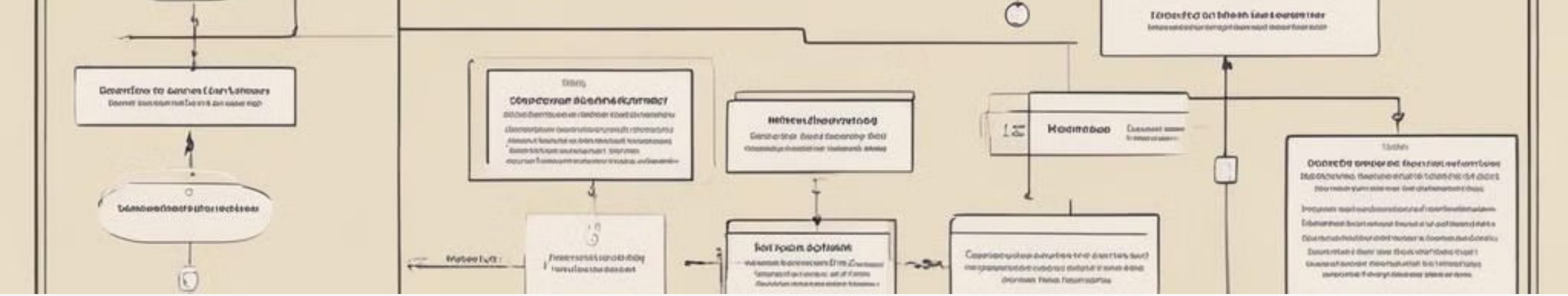

Object-Oriented Programming (OOP)

1 — Concept Understanding

Understanding the principles and benefits of OOP.

2 — Class Composition

Learning about composing classes and objects.

3 — Polymorphism & Inheritance

Exploring polymorphism, inheritance, and interfaces.

Java Basics

1 Language Fundamentals

Understanding syntax, keywords, and data types.

2 Object Creation

Creating and manipulating Java objects.

3 Exception Handling

Managing errors and exceptional conditions.

Data Types and Variables

Primitive Data Types

Exploring int, double, char, and boolean.

Understanding their memory allocation and usage.

Reference Data Types

Understanding arrays, strings, and objects.

How they are stored and accessed in memory.

Control Flow Statements

Conditional Statements

Understanding if, else, and switch statements.

Looping Statements

Exploring for, while, and do-while loops.

Arrays and Collections

1

Array Manipulation

Accessing, modifying, and traversing arrays.

2

Collection Framework

Understanding lists, sets, and maps.

Methods and Functions

3

Method Overloading

5

Function Parameters

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Recursion Applications

File Handling and I/O Operations

File Input / Output	Reading and writing data to files.
Stream Operations	Using streams for efficient data processing.