Java Programming Cheat Sheet Quick Reference Guide

Syntax Basics

- Data Types int, double, char, String, boolean
- Variables int num = 10;
- Operators: +, -, *, /, %, ++, --
- Input/Output: Scanner, Systemout.println ()

OOP Concepts

- ClassObject: classMyClass{ ... }
- Inheritance: classSubClassextends SuperClass
- Polymorphism: method overriding
- Encapsulation private variables, public methods

Arrays & Strings

- Array: int[] arr = new int[10];
- String Methods: length(), charAt(), substring()

Collections Framework

- List: ArrayList, LinkedList
- Set HashSet TreeSet
- Map: HashMap, TreeMap

Control Statements

- if-else: if (condition) { ... } else { ... }
- Switch: switch (variable) { casex: ... }
- Loops: for, while, do-while

Methods & Constructors

- Method: returnType methodName(parameters) { ... }
- Constructor: MyClass() { ... }

Exception Handling

- Try-Catch: try { ... } catch (Exception e) { ... }
 - Finally: finally { ... }

Multithreading

- Thread Creation: extends Thread, implements Runnable
- Synchronization: synchronized keyword

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