Java Summer Program NYC (High School & College)

This course will prepare you to excel as a programmer throughout college and beyond! Beginners will become advanced coders through our fast-moving curriculum and project-based approach to learning.

For more information, visit
https://cl.nobledesktop.com/courses/java-programming-summer-camp

Course Outline

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Section 1

Coding Overview

- Lexical & Syntax Analysis
- Working with the Terminal
- Computer Systems
- First Program

Variables, Data Types, and Operators

- Basic Variable Usage
- Data Types
- Operators
- Proper Programming Practices

Section 2

Control Flow

- Conditional Statements
- Truth Tables
- For Loops
- While Loops

Functions

- Declarations
- Overloading
- Return Values

Section 3

Arrays, Strings, and Dictionaries
- Array Processing
- Multi-dimensional Arrays
- String Methods
- String Manipulation
- Operations in Dictionaries

Section 4

Input/Output Files
- Streams and Files
- String Formatting
- Redirecting Output

Section 5

Object Oriented Programming
- Encapsulation
- Classes
- Inheritance
- Polymorphisim
- Abstraction

Section 6

Recursion
- Recursive Functions
- Recurrence Relation
- Base Case Analysis
- Motivation Behind Recursion