

JAVA COURSE AGENDA 2022

WEEK 1:

INTRO + GOALS

WHAT IS JAVA? + WHY LEARN JAVA? + HELLO WORLD

WEEK 2:

VARIABLES, CONSTANTS, CASTS AND CONVERSION

INPUT/OUTPUT

IF, FOR, WHILE, DO WHILE

WEEK 3:

BREAK, CONTINUE, SWITCH.

PROBLEM SOLVING (BASIC LEVEL)

MATH CLASS

WEEK 4:

METHODS

RECURSION

WEEK 6:

WHAT IS A DATA STRUCTURE?

ARRAYS, 2D ARRAYS

RANDOM Class, DATE Object

WEEK 7:

OOP INTRO,

CLASS, OBJECTS

CONSTRUCTORS

WEEK 8:

Array of objects, Passing Arrays to Methods

Static Methods, Method Overloading

WEEK 9:

GIT, GitHub, StackOverFlow, StackExchange

SORTING ALGORITHMS, SEARCHING ALGORITHMS

=== PROJECT #1 (LOOPS, CONDITIONS, ARRAYS, CLASSES)

WEEK 10:

PILLARS OF OOP

ENCAPSULATION + INHERITANCE + ABSTRACTION + POLYMORPHISM

SOLID Principles

WEEK 11:
EXCEPTIONS AND ERROR HANDLING
Debugging

WEEK 12:
DATA STRUCTURES, COLLECTIONS (ArrayList, LinkedList, Queue, Stack)

WEEK 13: (5 HOURS)
COLLECTIONS II (Set, Map)
Collection Patterns

WEEK 13: (5 HOURS)
Introduction to Generics
FILE CLASS, FILE IO, Writing Text Files

WEEK 14:
Introduction to the Internet, HTTP, API's
DB (JDBC), SQL, MySQL

WEEK 15: (5 HOURS)
Clean Code, Naming Conventions
DESIGN PATTERNS (OVERVIEW)

WEEK 16: (5 HOURS)
HOW TO SUCCEED IN INTERVIEWS
=== PROJECT #3 (FINAL PROJECT)
--- WHATS NEXT