

2-Week C++ Learning Plan for Hammad

Week 1 - Brush-Up & Fixing Weak Spots

Day 1: Pointers Basics - declaration, dereferencing, pointer to int, pointer to array

Day 2: Practice Pointers - pointer arithmetic, passing pointers to functions

Day 3: Classes & Objects - defining a class, constructors, member functions

Day 4: More OOP - constructor overloading, access specifiers, object creation

Day 5: File I/O - reading/writing text files, student data records

Day 6: Practice File Handling - append mode, line-by-line reading

Day 7: Mini Project: Student Record System (add, view, search using classes & file handling)

Week 2 - Object-Oriented Programming + Dynamic Memory

Day 1: Inheritance - base & derived classes, access modes

Day 2: Practice Inheritance - constructor chaining, function overriding

Day 3: Encapsulation - getters/setters, private data members

Day 4: Mini OOP Project: Bank Management System using classes

Day 5: Dynamic Memory - using new/delete, arrays on heap

Day 6: Structures & Classes - compare and practice using structs

Day 7: Final Practice + Optional: Polymorphism or Templates