**LAB PROJECT  
&  
OPEN ENDED LAB REPORT**

**Phone Contact Management System**



**SPRING 2025**

**CSE102L COMPUTER PROGRAMMING LAB**

Submitted by:

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Class Section: A

Submitted to:

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3rd July , 2025

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**Project Title: Phone Contact Management System**

**Project Objective:**

* To make a phone contact management system that is able to to create , search ,update and delete contacts .
* To make the system such that it is able to save the added contacts permanently to disk.

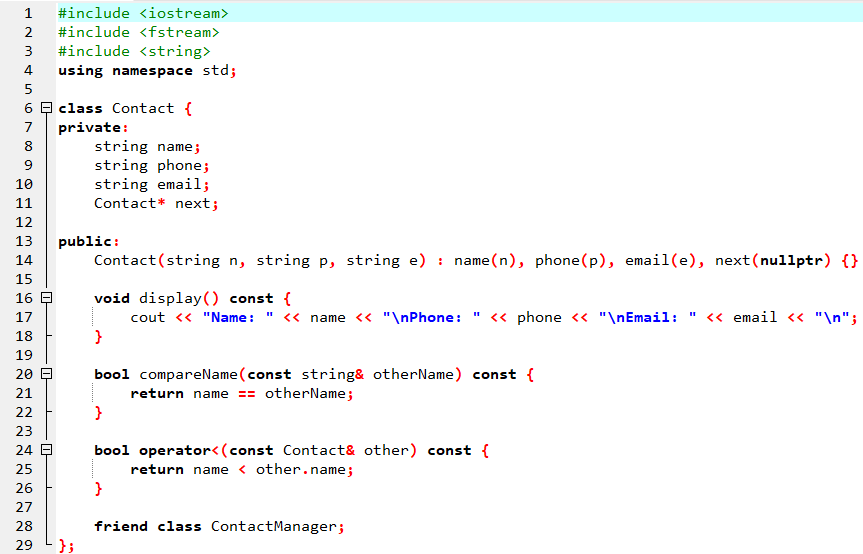
**Open Ended Lab Statement:**

Your Project must contain the following points:

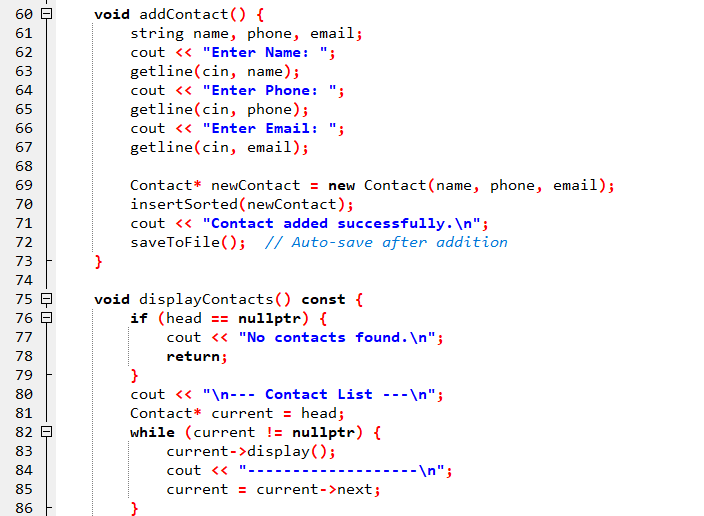
* The program must serve a real-world problem using concepts of OOP and File IO.
* You must use Structures or Classes in some context and utilize fstream library in C++.
* The program code must be modular.

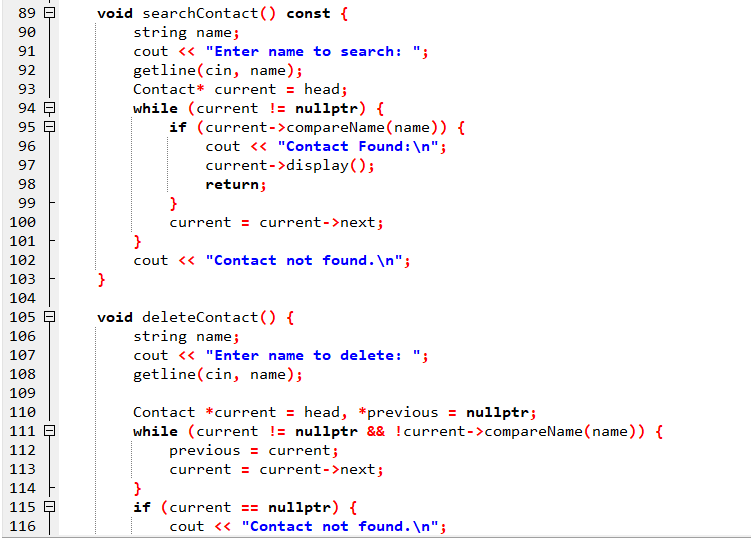
**Project Flow Chart:**

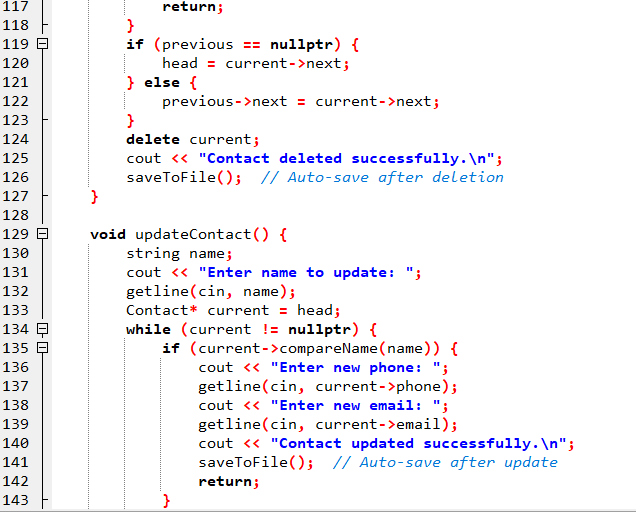
**Project Code Screenshots:**

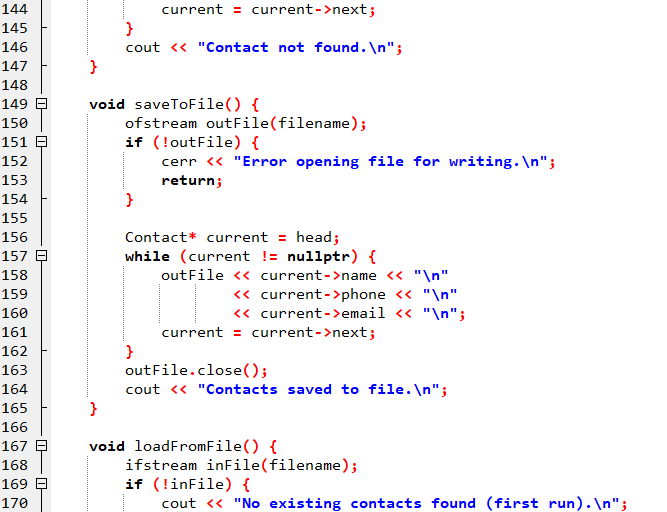


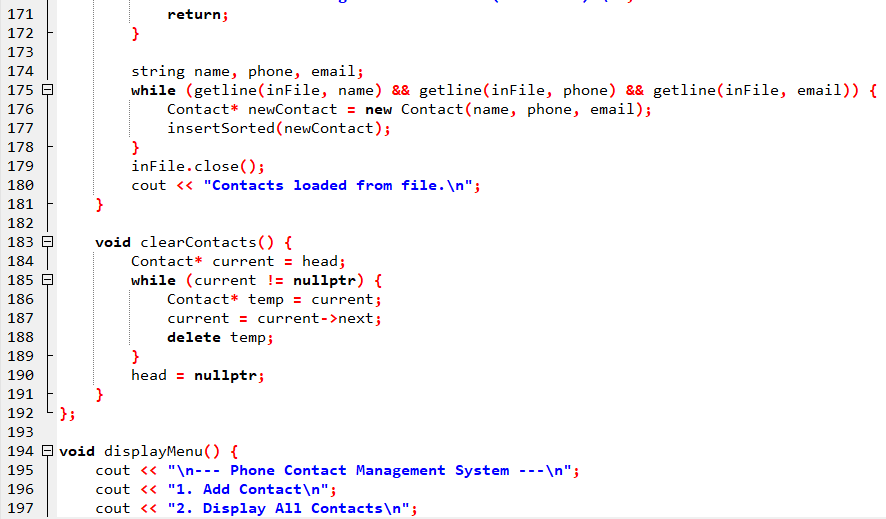


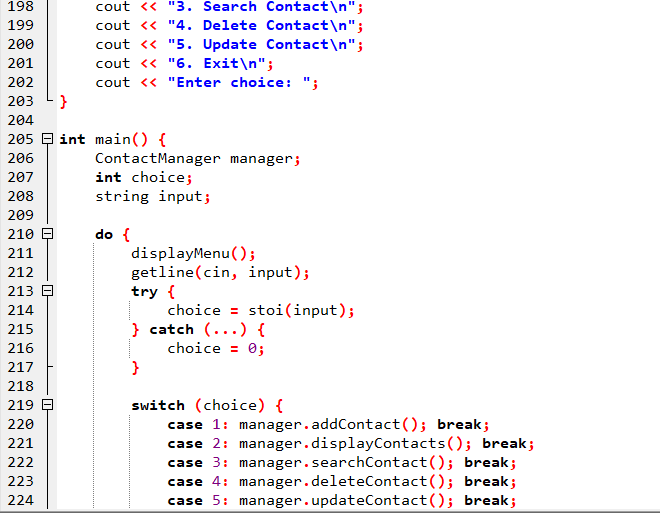


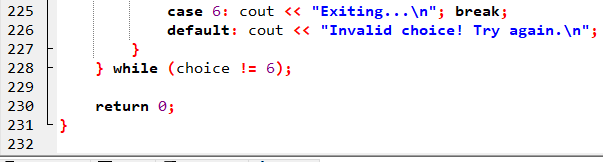




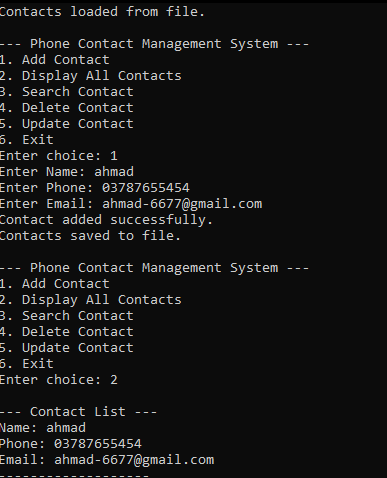


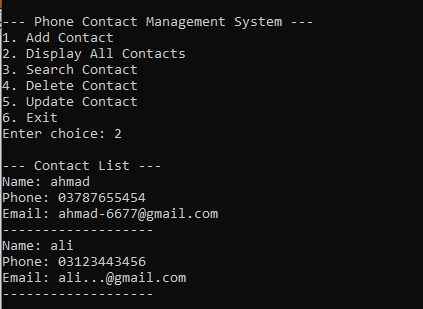


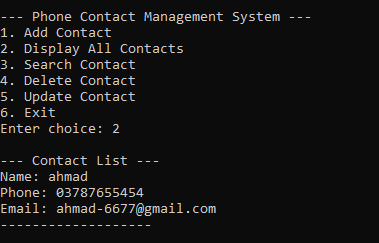




**Project Output Screenshot:**







**Group Members Contribution**

* Both group members worked together , thought for the project functions to be included .
* Muharram Ali coded for the functionality of programs .
* Muhammad Jalal Khan worked for data structures .
* Lab Report made by Muhammad Jalal Khan.
* Project program’s flowchart designed by Muharram Ali.