**LAB PROJECT**

**&**

**Open ended lab report**



**Spring 2025**

**CSE102L COMPUTER PROGRAMMING LAB**

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Class Section: A

**Submitted To:**

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**July 2, 2025**

Department Of Computer Systems Engineering

University Of Engineering And Technology, Peshawar

**Project Title:**

Basic E-commerce product catalog

**Project objectives:**

The main objective of this project is to develop a basic e-commerce product catalog system that allows users to manage product listings and simulate a shopping cart experience. It enables users to:

* Browse and manage products (add/remove).
* Add products to shopping cart.
* Simulate the checkout process.
* Save purchase receipts to a file.

**Open Ended Lab Statement:**

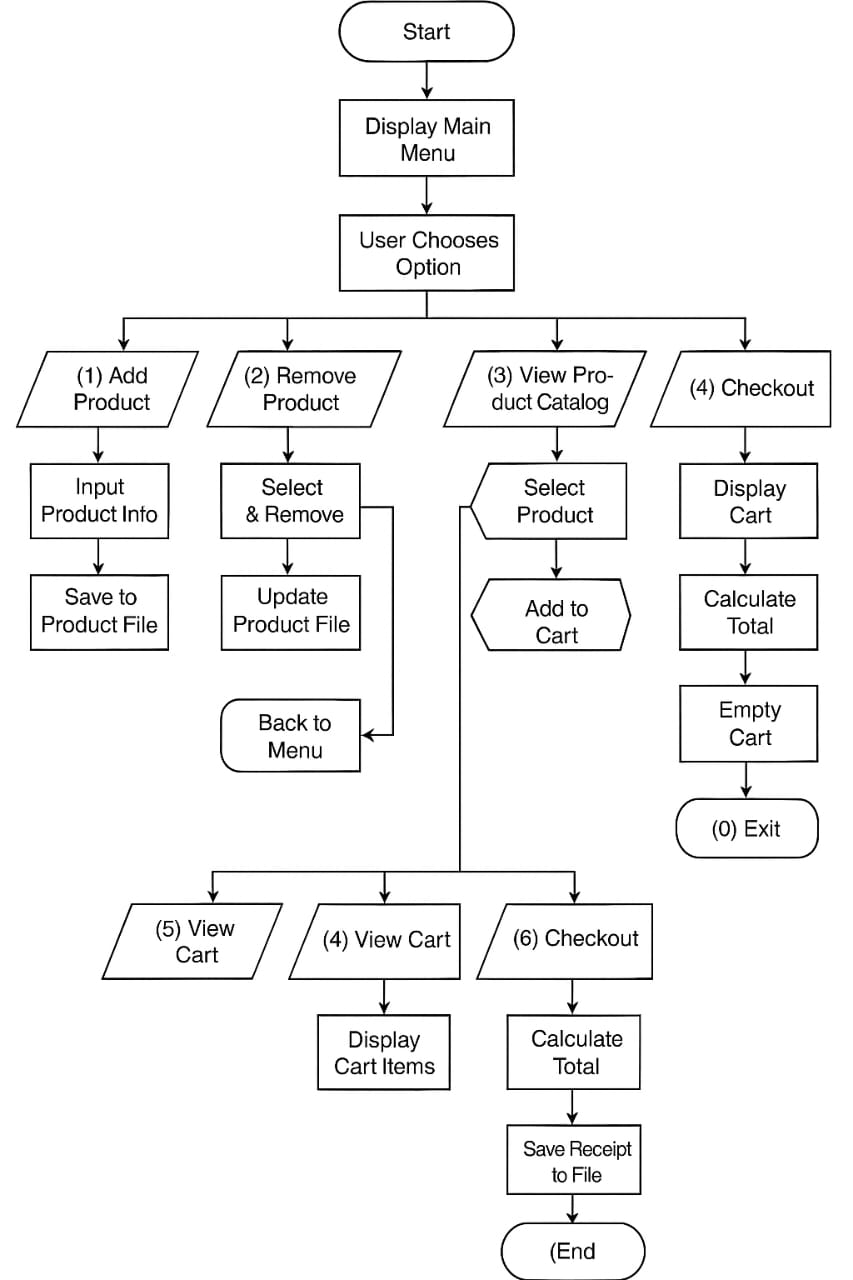
Your Project must contain the following points:

* The program must serve a real-world problem using concepts of OOP and File IO.

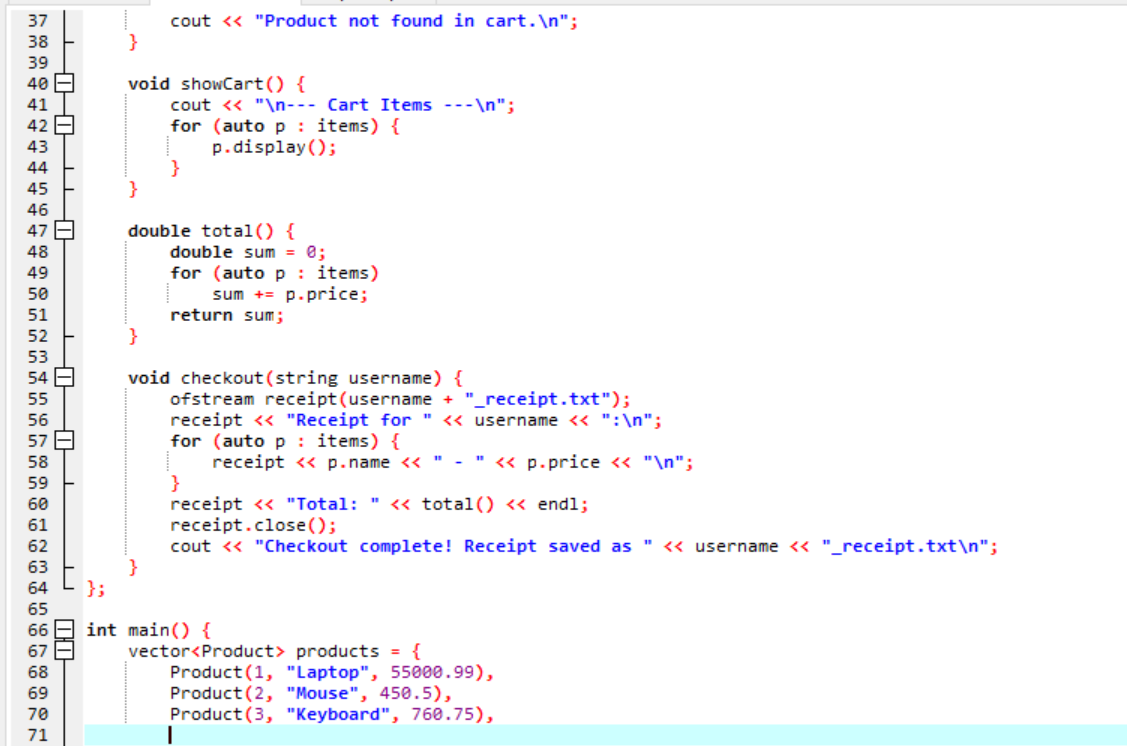
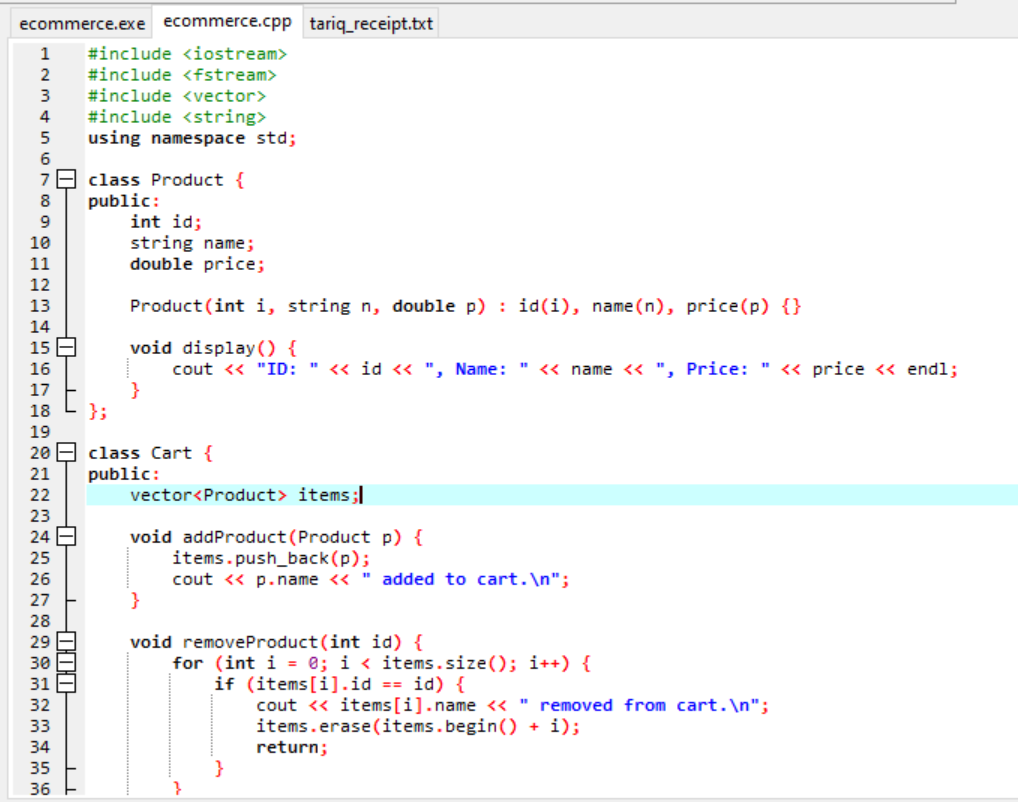
You must use Structures or Classes in some context and utilize fstream library in C++.

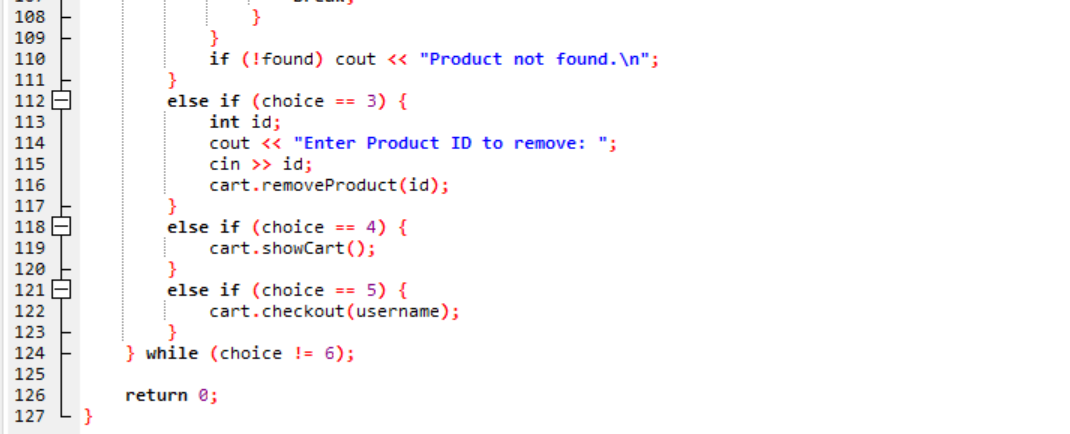
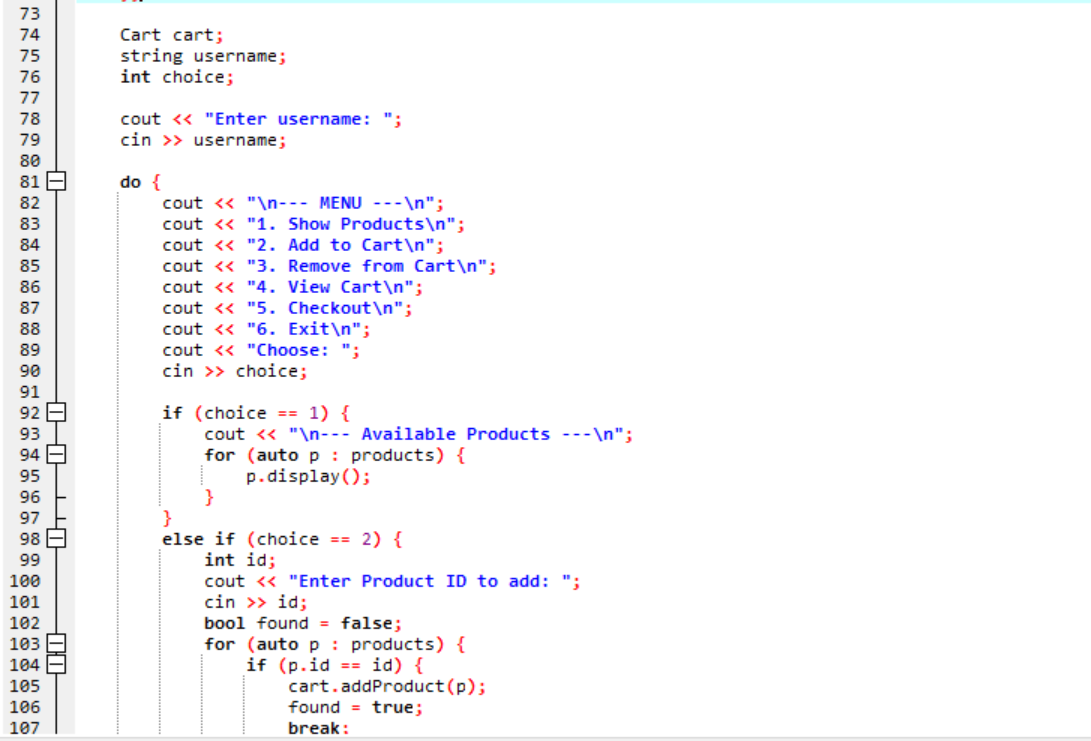
* The program code must be modular.

**Project Flow Chart:**

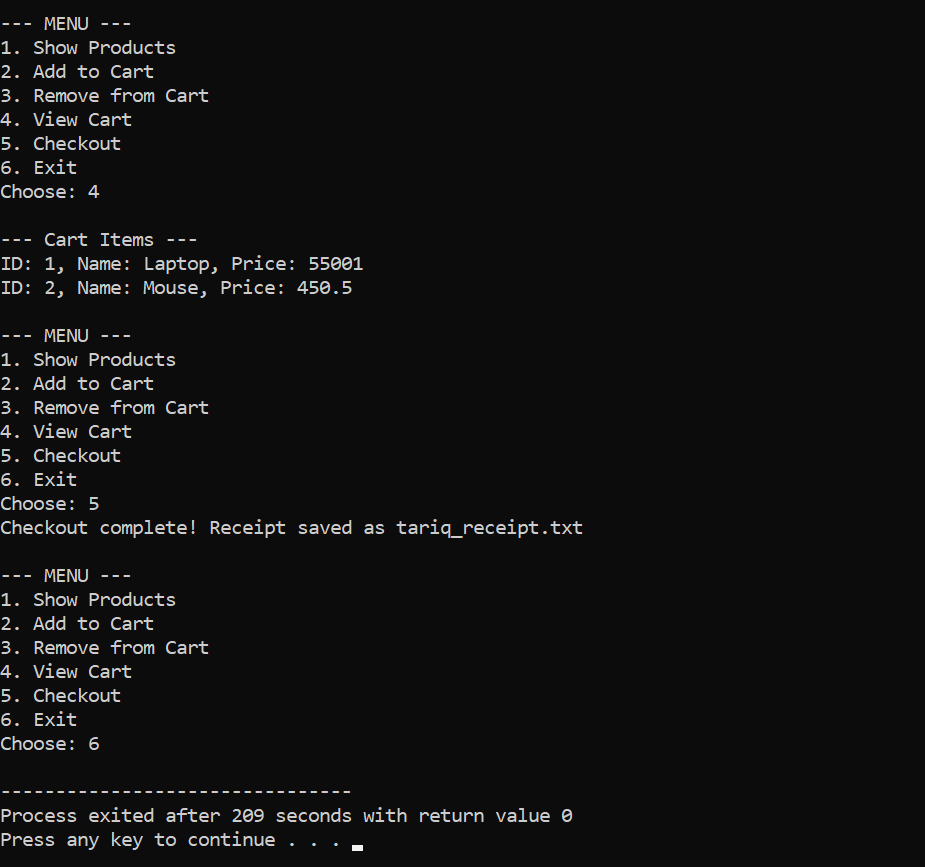
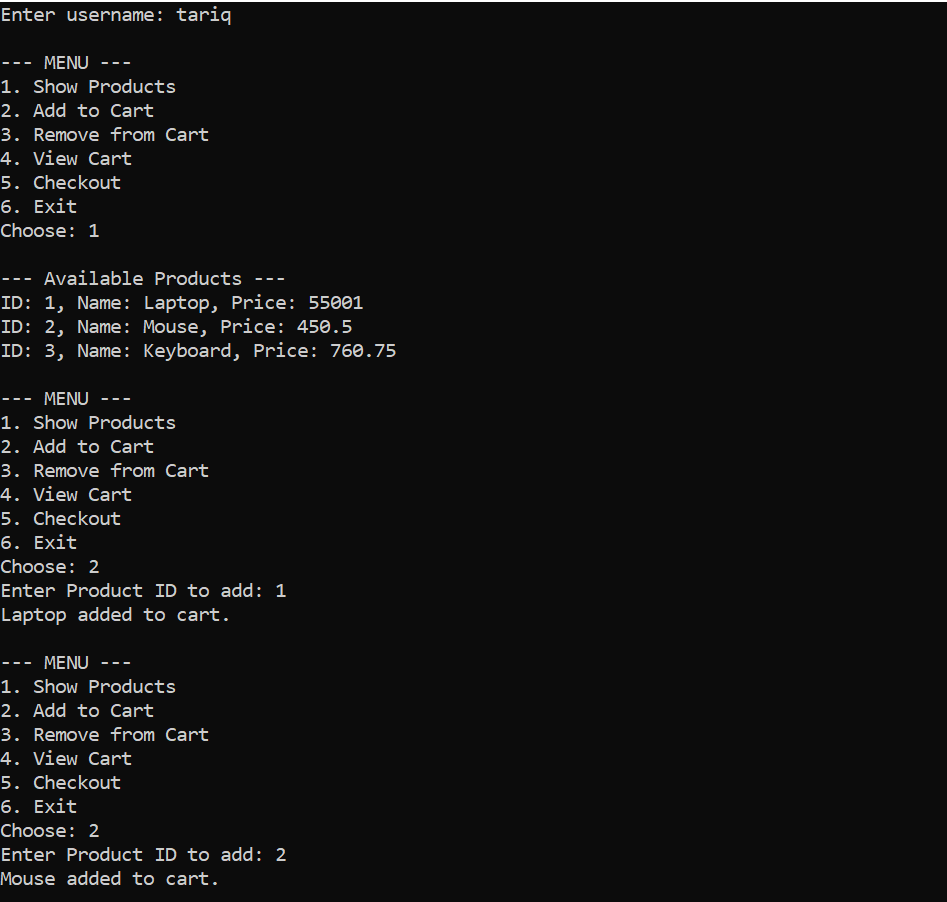


**Project Code Screenshots:**

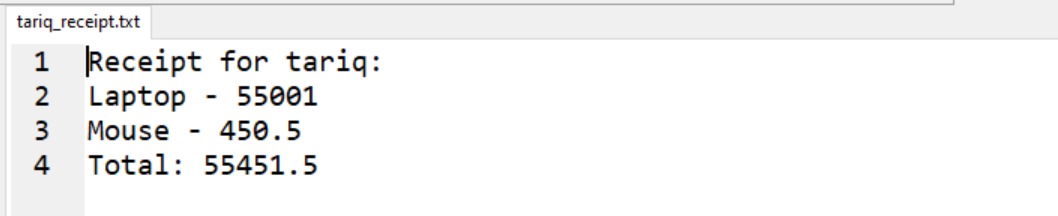
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**Project Output Screenshot:**

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**Purchase receipt:**

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