Assignment 3 Tasks to complete:

1. Import the provided test data (**computers.txt**) to your system using C++ Input.

(See code)

1. List all computers available in the store, displaying their Category, Type, ID, Brand, CPU Family, and Price. Sort the list first by Category, then by Type, and finally by ID. (Fig 1.)

A screenshot of a computer program

AI-generated content may be incorrect.

Figure . All inventory listed by Category, Type, Brand, CPU, and Price

1. Prompt store staff to perform any of the following four search actions and display the matching computers with all their details:
   1. Search by Category
   2. Search by Category and Type
   3. Search by ID (Fig 1.)
   4. Search by Price (can choose between, lower than, or higher than) (Fig 3.)

A computer screen with white text

AI-generated content may be incorrect.

Figure . Searching for a computer by its ID and returning the device

A screenshot of a computer program

AI-generated content may be incorrect.

Figure . Searching for a device via the price. Have a range to have a wider selection.

1. Provide the following options for store staff:
   1. Select a computer from the search results and update its details (All fields except 'ID' are editable. You may change its ‘Category’ and/or ‘Type’ to an existing one). (Fig 6.)
   2. Select a computer from the search results and delete it. (Fig 7.)
   3. Add a new computer to the store under the existing categories and types, ensuring the 'ID' is unique and not already in use. (Fig 4.)

A screenshot of a computer program

AI-generated content may be incorrect.

Figure . Adding a new computer via user input then saving to inventory.

A screenshot of a computer program

AI-generated content may be incorrect.

Figure . Updated inventory after adding computer.

A screenshot of a computer

AI-generated content may be incorrect.

Figure . After adding computer, updated its price to 900 instead of 1000 and saved.

A computer screen shot of a black screen

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Figure . Deleted a current computer and updated inventory.

1. Prompt store staff to update storage after each add, delete, or update action, then save the updated computer list to "**computers\_updated.txt**" upon confirmation. (Fig 5.)

A screenshot of a computer

AI-generated content may be incorrect.

Figure . Search by category. Added "desktop" above and then searched by the desktop category.