Basic ArrayList Operations

- 1. Create an ArrayList to store student names.
- 2. Add 5 student names to the list.
- 3. Display all names.
- 4. Remove one name from the list.
- 5. Insert a new name at index 2.
- 6. Print the final list using both a for loop and a foreach loop.

ArrayList with Mixed Data Types

- 1. Create an ArrayList and add the following elements:
 - A string ("John")
 - o An integer (25)
 - A double (75.5)
 - A boolean (true)
- Iterate through the list and print each element along with its data type using GetType().

Using Generics with List

- 1. Create a List<int> to store marks of 5 students.
- 2. Add marks (e.g., 78, 92, 67, 88, 95).
- 3. Calculate and print the average mark.
- 4. Remove the lowest mark.
- 5. Sort the list in ascending order and print the updated list.

List of Custom Objects

- 1. Create a class Book with properties: Title, Author, and Price.
- 2. Create a List<Book> and add at least 3 books.
- 3. Display all book details.
- 4. Find and display the book with the **highest price**.
- 5. Remove a book by title.

LINQ with List

- 1. Create a List<string> of 6 names.
- 2. Use LINQ to:
 - Find all names that start with 'A'.
 - Find names with length greater than 4.
- 3. Display the results.

Menu-Based List Program

Create a console app to manage an employee list: Create an EmployeeCollection class and add List<Employee>. Create methods for the below operations.

Employee class structure:

Property Name	Data Type
ld, set	String, autogenerated Emp1000, Emp1001 etc
Name	string
Salary	double
EmployeeType	String (Permanent, Contract)

Add Employee

- Remove Employee : Input Employee Id, if no employee found display No Employee found with Id <Id input>
- Display All Employees
- Search Employee by Name : Input name, if no employee found display No Employee found
- Exit

In the Program.cs class, Display the below text

Welcome to the Employee Management System...

Please choose one of the following:

- 1. Add Employee
- 2. Remove Employee
- 3. Display All Employees
- 4. Search Employee
- 5. Exit