

Assignment 04

1. Basic Delegate Usage

- Description: Create a simple delegate that takes two integers as parameters and returns their sum. Use this delegate in your code to perform addition operations.
- Requirements:
 - Declare and instantiate the delegate.
 - Invoke the delegate to add two integers and print the result.

2. Anonymous Method and Lambda Expression

- Description: Use the delegate created in the previous question to perform addition using both an anonymous method and a lambda expression.
- Requirements:
 - Implement the addition using an anonymous method.
 - Implement the addition using a lambda expression.
 - Compare both approaches in terms of code readability and usage.

3. Multicast Delegates and Generic Delegates

- Description: Create a multicast delegate that chains multiple methods together, each performing a different mathematical operation (e.g., addition, subtraction). Also, create a generic delegate that can work with different data types.
- Requirements:
 - Implement a multicast delegate that chains at least three methods.
 - Demonstrate the use of a generic delegate to handle different data types.

4. Using Func, Predicate, and Action Delegates

- Description: Demonstrate the use of Func, Predicate, and Action delegates by creating a console application that uses each of these delegates to perform specific operations.
- **Requirements:**
 - Use a Func delegate to perform an arithmetic operation and return the result.
 - Use a Predicate delegate to check if a number is even.
 - Use an Action delegate to print a message to the console.