1. Create a class called File with events called Write and Read. Add required parameters to this class like file name etc. Create a menu driven program to ask end user what he / she wants to do - 1 Read -2 Write. Based on the choice raise the event and print on console file read / write successful to simulate the operation.
2. Design de coupled, flexible document reader application which can read any type of document and insert the data read into any database. [Refer to the discussion in the lecture]
3. Create a program to search customer from the customer -dictionary with customer ID as key and Customer object as value. Use for each loop. On the console ask end user to enter customer ID to be searched and after you get the customer object -- print the details of the customer.
4. Create above program number 3 using LINQ. Avoid for each loop.
5. Modify program number 1 to change simple delegates to use anonymous method
6. Modify program number 1 to change simple delegates to use Lambada expression
7. Create a console application to simulate leave application process. Conditions are - user can only apply leave in following sequence -> A) Apply B) Approve C) Reject D) NotifyDecision. Make sure sequence is guaranteed and custom messages like "You leave got approval / rejection" can be printed. Follow SRP in the program.
8. Create a class – Account along with well known properties like balance | AccType Etc. Define events in the class called withdraw & deposit. Handle the same using delegates pointing to a method returning void taking amount to be withdrawn / deposited as parameter.
9. Modify above assignment in such a way that once withdraw happens the event handler should get called twice. [Relatively just to understand it; it is like – click on a button & hello message in message box appears twice]
10. Using anonymous delegate(s) only [No event concept] try achieving above assignment(S).
11. Create a console application. Accept input from user. Ask end user to enter some number. Check what number is being entered by end user using switch case. Using switch case, print that number in character format.
12. In console application, create an array which will store anything. i.e. integer, string, customer class object (using object array). Try fetching objects one more time back and print information in it. Understand that array has limited size.
13. Try 12th assignment using array-list object.
14. Modify assignment number 2 to create different dlls for base classes and different dlls for child classes
15. Modify assignment number 14 to put dlls in GAC
16. Write a program to calculate discount on a book satisfying the following conditions:

    a) If the consumer is student and the shopping amount is greater than or equal to Rs.500, then discount is 20%.
    b) If the consumer is student and the shopping amount is less than Rs.500, then discount is 15%.

c) If the consumer is not student and shopping amount is greater than 600, then discount is 15%.
d) If the consumer is not student and shopping amount is less than or equal to 600, then discount is 5%.

17. Write a program to display following patterns

a)1 1 2 1 2 3 1 2 3 4	b) 1 2 2 3 3 3 4 4 4 4	c) 1 2 1 3 2 1 4 3 2 1