1. Write a program in C# to store elements in an array and print it using foreach.  
     
   **Test Data:**Input 10 elements in the array:  
   element - 0 : 1   
   element - 1 : 1   
   element - 2 : 2   
   .......   
   **Expected Output :**   
   Elements in array are: 1 1 2 3 4 5 6 7 8 9
2. Write a program in C# to read n number of values in an array and display it in reverse order using foreach.  
     
   **Test Data :**   
   Input the number of elements to store in the array :3   
   Input 3 number of elements in the array :   
   element - 0 : 2   
   element - 1 : 5   
   element - 2 : 7   
     
   **Expected Output:**   
   The values store into the array are: 2 5 7   
   The values store into the array in reverse are : 7 5 2
3. Write a program in C# to find the sum of all elements of the array using foreach.  
     
   **Test Data :**   
   Input the number of elements to be stored in the array :3   
   Input 3 elements in the array :   
   element - 0 : 2   
   element - 1 : 5   
   element - 2 : 8   
     
   **Expected Output :**   
   Sum of all elements stored in the array is : 15
4. Write a program in C# Sharp to find maximum and minimum element in an array.  
     
   **Test Data :**   
   Input the number of elements to be stored in the array :3   
   Input 3 elements in the array :   
   element - 0 : 45   
   element - 1 : 25   
   element - 2 : 21   
     
   **Expected Output :**   
   Maximum element is : 45   
   Minimum element is : 21
5. Write a program in C# Sharp to separate odd and even integers in separate arrays using foreach.  
     
   **Test Data :**   
   Input the number of elements to be stored in the array :5   
   Input 5 elements in the array :   
   element - 0 : 25   
   element - 1 : 47   
   element - 2 : 42   
   element - 3 : 56   
   element - 4 : 32   
     
   **Expected Output:**   
   The Even elements are: 42 56 32 The Odd elements are : 25 47
6. Write a program in C# Sharp to sort elements of array in ascending order.  
     
   **Test Data :**   
   Input the size of array : 5   
   Input 5 elements in the array :   
   element - 0 : 2   
   element - 1 : 7   
   element - 2 : 4   
   element - 3 : 5   
   element - 4 : 9   
     
   **Expected Output :**   
   Elements of array in sorted ascending order: 2 4 5 7
7. Write a program in C# Sharp for forming a 2D array of size 3x3 and print the matrix.  
     
   **Test Data :**   
   Input elements in the matrix :   
   element - [0],[0] : 1   
   element - [0],[1] : 2   
   element - [0],[2] : 3   
   element - [1],[0] : 4   
   element - [1],[1] : 5   
   element - [1],[2] : 6   
   element - [2],[0] : 7   
   element - [2],[1] : 8   
   element - [2],[2] : 9   
     
   **Expected Output :**   
   The matrix is :   
   1 2 3   
   4 5 6  
   7 8 9
8. Write a program in C# Sharp for addition of two Matrices of same size.  
     
   **Test Data:**   
   Input the size of the square matrix (less than 5): 2   
   Input elements in the first matrix:   
   element - [0],[0] : 1   
   element - [0],[1] : 2   
   element - [1],[0] : 3   
   element - [1],[1] : 4   
   Input elements in the second matrix :   
   element - [0],[0] : 5   
   element - [0],[1] : 6   
   element - [1],[0] : 7   
   element - [1],[1] : 8   
     
   **Expected Output:**   
   The First matrix is:   
   1 2   
   3 4   
   The Second matrix is :   
   5 6   
   7 8   
   The Addition of two matrix is   
   6 8   
   10 12
9. Write a program in C# Sharp for multiplication of two square Matrices.  
     
   **Test Data** :   
   Input the rows and columns of first matrix : 2 2   
   Input the rows and columns of second matrix : 2 2   
   Input elements in the first matrix :   
   element - [0],[0] : 1   
   element - [0],[1] : 2   
   element - [1],[0] : 3   
   element - [1],[1] : 4   
   Input elements in the second matrix :   
   element - [0],[0] : 5   
   element - [0],[1] : 6   
   element - [1],[0] : 7   
   element - [1],[1] : 8   
     
   **Expected Output** :   
   The First matrix is :   
   1 2   
   3 4   
   The Second matrix is :   
   5 6   
   7 8   
   The multiplication of two matrix is :   
   19 22   
   43 50
10. write a program in C# Sharp to find transpose of a given matrix.  
      
    **Test Data** :   
    Input the rows and columns of the matrix : 2 2   
    Input elements in the first matrix :   
    element - [0],[0] : 1   
    element - [0],[1] : 2   
    element - [1],[0] : 3   
    element - [1],[1] : 4   
      
    **Expected Output** :   
    The matrix is :   
    1 2   
    3 4   
    The Transpose of a matrix is :   
    1 3   
    2 4