Lab-3 (Array, Parameter and Namespace)

1. Write a C# program to find sun of array elements of size n

```
Microsoft Visual Studio Debug Console

Enter the size of array:
5
Enter array elements: 5
Element1:1
Element2:2
Element3:3
Element4:4
Element5:5
Sum of the array element: 15
```

2. Write a C# program to find minimum and maximum element from 1-D array of size n

```
Microsoft Visual Studio Debug Console

Enter the size of the array: 5
Enter the array elements:
Element 1: 7
Element 2: 8
Element 3: 5
Element 4: 6
Element 5: 9

Minimum element: 5
Maximum element: 9

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```

3. Write a C# program to find sum of diagonal element of 3x3 matrix.

```
Enter the element of the 3X3 matrix:
Element(1, 1):
1
Element(1, 2):
2
Element(1, 3):
3
Element(2, 1):
4
Element(2, 2):
5
Element(2, 3):
6
Element(3, 1):
7
Element(3, 2):
8
Element(3, 3):
9
```

```
The matrix is:
1
2
3

4
5
6

7
8
9

Sum of diagonal element:15
```

4. Write a C# program to compute multiplication of two 3x3 matrix and display resultant matrix.

```
Enter the elements of matrix1:
1
2
3
4
5
6
7
8
9
Enter the elements of matrix2:
9
8
7
6
5
4
3
2
1
```

```
Matrix1:
1       2       3
4       5       6
7       8       9

Matrix2:
9       8       7
6       5       4
3       2       1

 Result Matrix3:
30      24      18
84      69      54
138     114     90

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```

5. Write a C# program to declare and initialize jagged array and also display the array element.

```
Microsoft Visual Studio Debug Console

Jagged Array:
Row 1: 1 2 3
Row 2: 4 5 6 7
Row 3: 8 9

D:\BCA\Lab\lab3\lab3\bin\Debug\net8
```

6. Write a C# program to illustrate the concept of parameter pass by value and pass by reference

```
Microsoft Visual Studio Debug Console

Original value before method call (Pass by Value): 10
Inside PassByValue method: 100
Value after method call (Pass by Value): 10

Original value before method call (Pass by Reference): 20
Inside PassByReference method: 200
Value after method call (Pass by Reference): 200

D:\BCA\Lab\lab3\lab3\bin\Debug\net8.0\lab3.exe (process 38
```

7. Write a C# program to create user defined namespace and then use it in another namespace

Lab-3 (Array, Parameter and Namespace)

Microsoft Visual Studio Debug Console

```
Hello from MyNamespace!

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```