

# Nandhini M

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## Question 1.

Adding of two matrices

### Program

```
using System;
namespace ArrayConcept
//program for adding two arrays into one array
{
    // class for adding arrays
    class AddingArray
    {
        static void Main(string[] args)
        {
            int[,] arrayOne = { { 1, 2, 3 }, { 4, 5, 6 } };
            int[,] arrayTwo = { { 2, 3, 4 }, { 5, 6, 7 } };
            int[,] additionArray = new int[2, 3];
            //method for adding arrays
            void AddingOperation()
            {
                for (int i = 0; i < 2; i++)
                {
                    for (int j = 0; j < 3; j++)
                    {
                        additionArray[i, j] = arrayOne[i, j] + arrayTwo[i, j];
                    }
                }
            }
            void DisplayArray()
            {
                Console.WriteLine("Added Array is : ");
                AddingOperation();
                for (int i = 0; i < 2; i++)
                {
                    for (int j = 0; j < 3; j++)
                    {
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                        Console.Write(additionArray[i, j] + "\t");
                    }
                    Console.WriteLine();
                }
            }
            DisplayArray();
        }
    }
}
```

# Output

```
Microsoft Visual Studio Debug Console
Added Array is :
3      5      7
9      11     13

E:\.NET\dotnet\Test\bin\Debug\net6.0\Test.exe (process 7388) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debuggir
Press any key to close this window . . .
```