

## EXPT 6

- **Multidimensional Array**

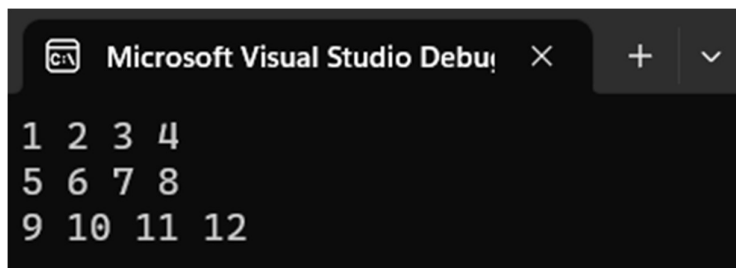
```
using System;

class Program
{
    static void Main(string[] args)
    {
        int[,] matrix = new int[3, 4];

        for (int i = 0; i < 3; i++)
        {
            for (int j = 0; j < 4; j++)
            {
                matrix[i, j] = i * 4 + j + 1;
            }
        }

        for (int i = 0; i < 3; i++)
        {
            for (int j = 0; j < 4; j++)
            {
                Console.Write(matrix[i, j] + " ");
            }
            Console.WriteLine();
        }
    }
}
```

**Output: -**

A screenshot of the Microsoft Visual Studio Debug Console. The window title is "Microsoft Visual Studio Debug Console" with a close button (X) and a dropdown arrow. The console output shows a 3x4 grid of numbers: 1 2 3 4, 5 6 7 8, and 9 10 11 12, each on a new line.

```
Microsoft Visual Studio Debug Console X + v
1 2 3 4
5 6 7 8
9 10 11 12
```

- **Jagged Array**

```
using System;

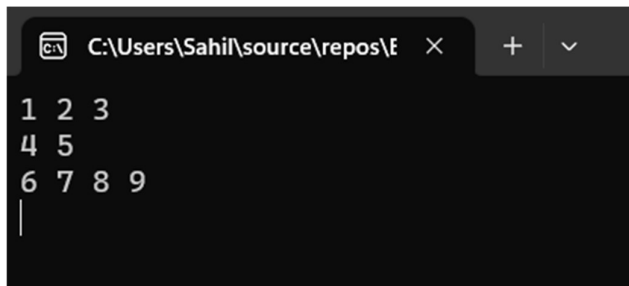
class Program
{
    static void Main(string[] args)
    {
        int[][] arr = new int[3][];
        arr[0] = new int[] { 1, 2, 3 };
        arr[1] = new int[] { 4, 5 };
        arr[2] = new int[] { 6, 7, 8, 9 };

        for (int i = 0; i < arr.Length; i++)
        {
            for (int j = 0; j < arr[i].Length; j++)
            {
                Console.Write(arr[i][j] + " ");
            }

            Console.WriteLine();
        }

        Console.ReadKey();
    }
}
```

**Output: -**

A screenshot of a Windows console window with a dark background. The title bar shows the file path 'C:\Users\Sahil\source\repos\F' and standard window controls. The console output displays three lines of numbers: '1 2 3', '4 5', and '6 7 8 9'. A vertical cursor is visible at the end of the third line.

```
C:\Users\Sahil\source\repos\F  × + ▾
1 2 3
4 5
6 7 8 9
|
```