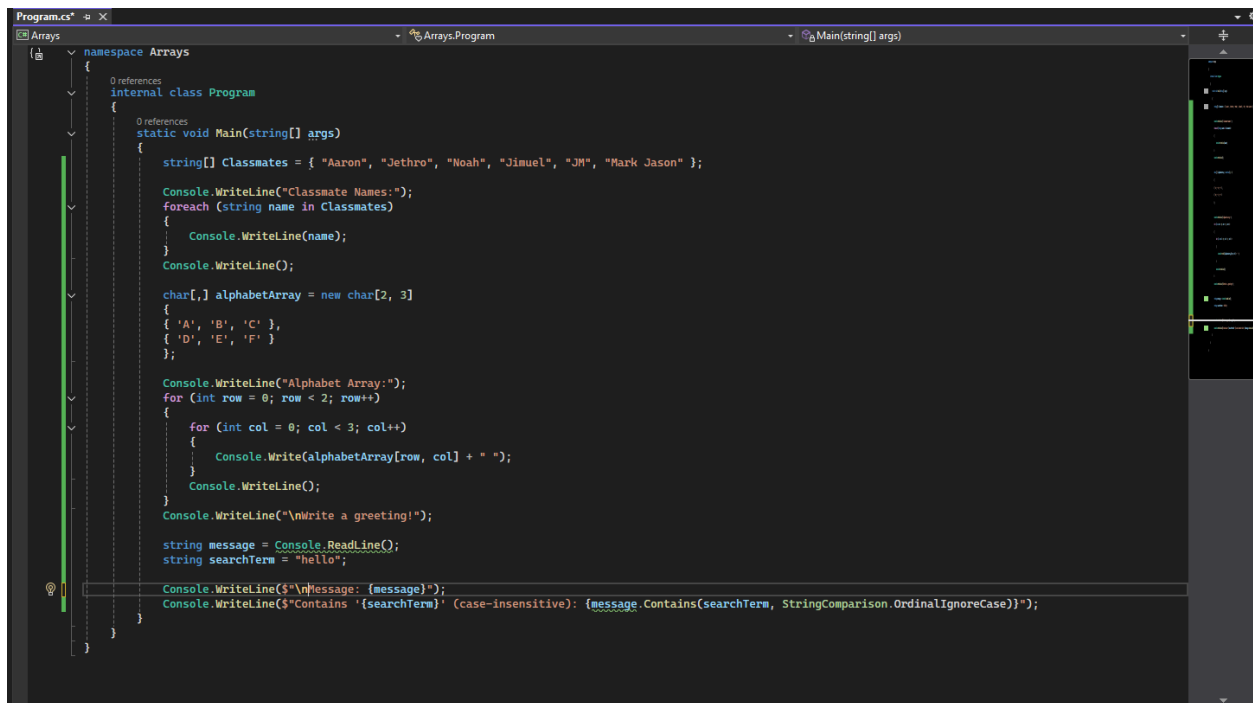


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## 1. Screenshot of code:

A screenshot of a C# code editor window. The title bar shows 'Program.cs' and 'Arrays'. The code is written in a dark-themed editor. It defines a namespace 'Arrays' containing an internal class 'Program'. Inside 'Program', there is a static method 'Main' that takes a string array 'args'. The code initializes a string array 'Classmates' with names: 'Aaron', 'Jethro', 'Noah', 'Jimuel', 'JM', 'Mark Jason'. It then prints 'Classmate Names:' and iterates through 'Classmates' to print each name. Next, it initializes a 2D char array 'alphabetArray' with values: {'A', 'B', 'C'}, {'D', 'E', 'F'}. It prints 'Alphabet Array:' and uses a nested loop to print each character. After that, it prompts the user to 'Write a greeting!' and reads a message. It then checks if the message contains the search term 'hello' (case-insensitive) and prints the result.

```
namespace Arrays
{
    internal class Program
    {
        static void Main(string[] args)
        {
            string[] Classmates = { "Aaron", "Jethro", "Noah", "Jimuel", "JM", "Mark Jason" };

            Console.WriteLine("Classmate Names:");
            foreach (string name in Classmates)
            {
                Console.WriteLine(name);
            }
            Console.WriteLine();

            char[,] alphabetArray = new char[2, 3]
            {
                { 'A', 'B', 'C' },
                { 'D', 'E', 'F' }
            };

            Console.WriteLine("Alphabet Array:");
            for (int row = 0; row < 2; row++)
            {
                for (int col = 0; col < 3; col++)
                {
                    Console.Write(alphabetArray[row, col] + " ");
                }
                Console.WriteLine();
            }
            Console.WriteLine("\nWrite a greeting!");

            string message = Console.ReadLine();
            string searchTerm = "hello";

            Console.WriteLine($"Message: {message}");
            Console.WriteLine($"Contains '{searchTerm}' (case-insensitive): {message.Contains(searchTerm, StringComparison.OrdinalIgnoreCase)}");
        }
    }
}
```

## 2. Codes

namespace Cubia

```
{
    internal class Program
    {
        static void Main(string[] args)
        {
            string[] Classmates = { "Aaron", "Jethro", "Noah", "Jimuel", "JM", "Mark Jason" };

            Console.WriteLine("Classmate Names:");
            foreach (string name in Classmates)
            {
                Console.WriteLine(name);
            }
            Console.WriteLine();

            char[,] alphabetArray = new char[2, 3]
            {
                { 'A', 'B', 'C' },
                { 'D', 'E', 'F' }
            }
        }
    }
}
```

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```
};

Console.WriteLine("Alphabet Array:");
for (int row = 0; row < 2; row++)
{
    for (int col = 0; col < 3; col++)
    {
        Console.Write(alphabetArray[row, col] + " ");
    }
    Console.WriteLine();
}
Console.WriteLine("\nWrite a greeting!");

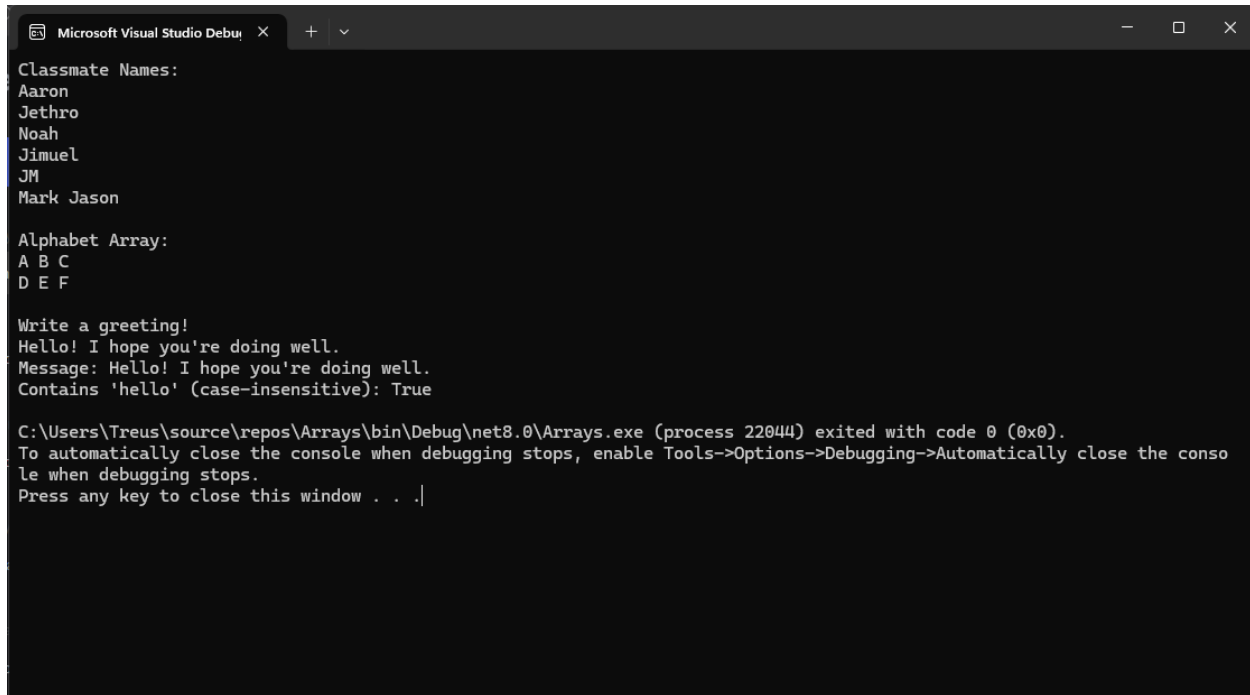
string message = Console.ReadLine();
string searchTerm = "hello";

Console.WriteLine($"Message: {message}");
Console.WriteLine($"Contains '{searchTerm}' (case-insensitive):
{message.Contains(searchTerm, StringComparison.OrdinalIgnoreCase)}");
    }
}
}
```

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### 3. Screenshot of the output:

A screenshot of the Microsoft Visual Studio Debug Console window. The window has a title bar with 'Microsoft Visual Studio Debug' and standard window controls. The output text is as follows:

```
Classmate Names:  
Aaron  
Jethro  
Noah  
Jimuel  
JM  
Mark Jason  
  
Alphabet Array:  
A B C  
D E F  
  
Write a greeting!  
Hello! I hope you're doing well.  
Message: Hello! I hope you're doing well.  
Contains 'hello' (case-insensitive): True  
  
C:\Users\Treus\source\repos\Arrays\bin\Debug\net8.0\Arrays.exe (process 22044) exited with code 0 (0x0).  
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.  
Press any key to close this window . . .|
```

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4. Flowchart:

