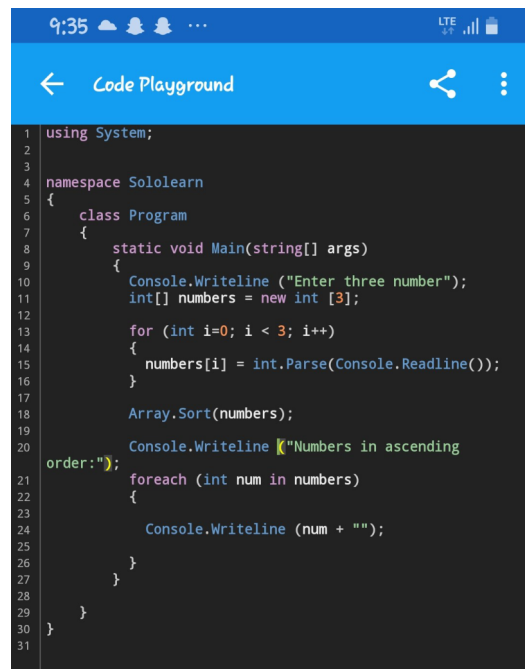
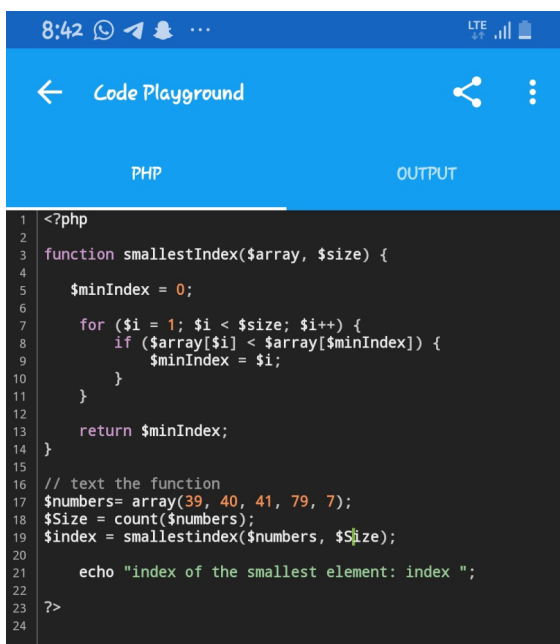


1. Write a C# program that prompt the user to input three numbers .The program should then output the numbers in ascending order

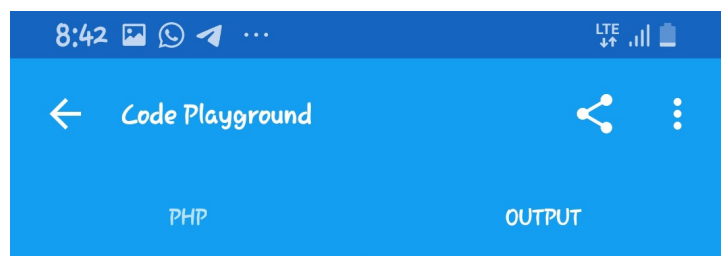


```
1 using System;
2
3
4 namespace Sololearn
5 {
6     class Program
7     {
8         static void Main(string[] args)
9         {
10             Console.WriteLine ("Enter three number");
11             int[] numbers = new int [3];
12
13             for (int i=0; i < 3; i++)
14             {
15                 numbers[i] = int.Parse(Console.ReadLine());
16             }
17
18             Array.Sort(numbers);
19
20             Console.WriteLine ("Numbers in ascending
21 order:");
22             foreach (int num in numbers)
23             {
24                 Console.WriteLine (num + "");
25             }
26         }
27     }
28
29 }
30
31 }
```

2. Write a PHP Function ,smallestindex ,that takes as parameters an int array and its size,and returns the index of the smallest element in the array .Also,write a program to test your function

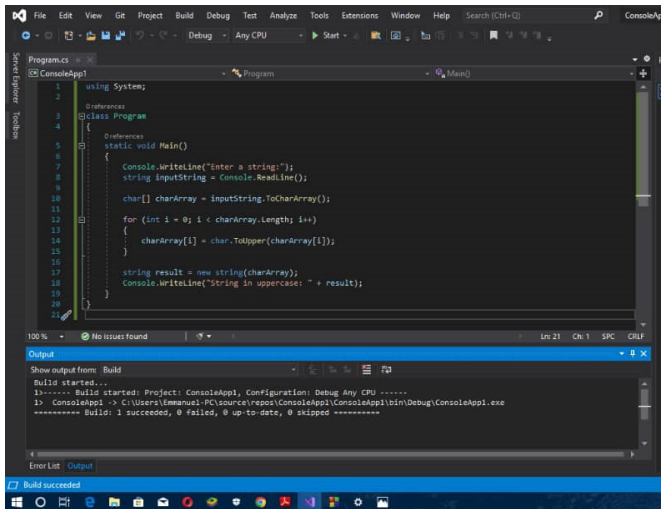


```
1 <?php
2
3 function smallestIndex($array, $size) {
4
5     $minIndex = 0;
6
7     for ($i = 1; $i < $size; $i++) {
8         if ($array[$i] < $array[$minIndex]) {
9             $minIndex = $i;
10        }
11    }
12
13    return $minIndex;
14 }
15
16 // test the function
17 $numbers= array(39, 40, 41, 79, 7);
18 $Size = count($numbers);
19 $index = smallestIndex($numbers, $Size);
20
21 echo "index of the smallest element: index ";
22
23 ?>
24
```



```
index of the smallest element: index
```

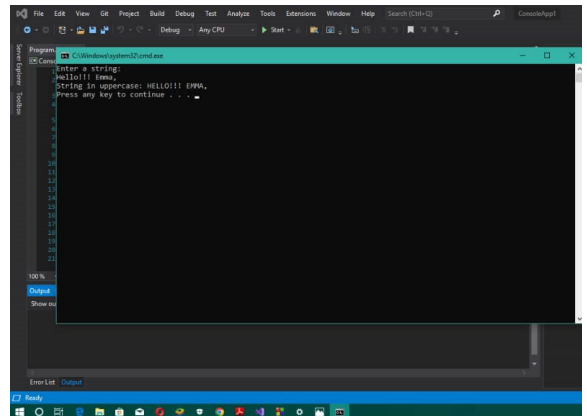
3. Write a C# program that prompts the user to input a string and outputs the string in uppercase(Use a character array to store the string)



```
1 using System;
2
3 namespace ConsoleApp1
4 {
5     class Program
6     {
7         static void Main()
8         {
9             Console.WriteLine("Enter a string:");
10            string InputString = Console.ReadLine();
11
12            char[] charArray = InputString.ToCharArray();
13
14            for (int i = 0; i < charArray.Length; i++)
15            {
16                charArray[i] = char.ToUpper(charArray[i]);
17            }
18
19            string result = new string(charArray);
20            Console.WriteLine("String in uppercase: " + result);
21        }
22    }
23 }
```

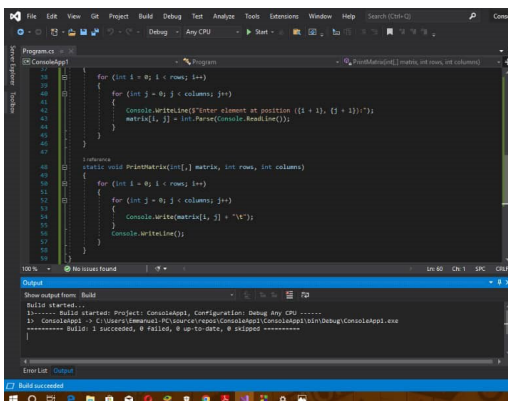
Output

```
Show output from: Build
Build started...
1:----- Build started: Project: ConsoleApp1, Configuration: Debug Any CPU -----
1> ConsoleApp1 -> C:\Users\jennanah\PC\source\repos\ConsoleApp1\ConsoleApp1\bin\Debug\ConsoleApp1.exe
----- Build: 1 succeeded, 0 failed, 0 up-to-date, 0 skipped -----
```



```
Enter a string:
Hello!! Emma.
String in uppercase: HELLO!! EMMA.
Press any key to continue . . .
```

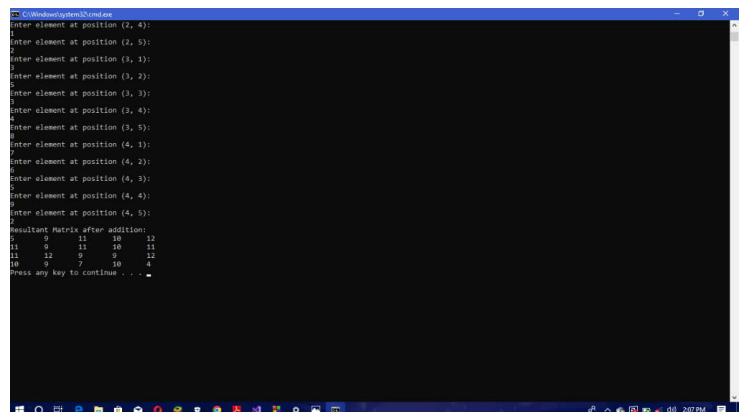
4. Write a C# program to compute the addition of of N by M matrices.Allow the user to determine the size of the row and column



```
18
19
20 for (int i = 0; i < rows; i++)
21 {
22     for (int j = 0; j < columns; j++)
23     {
24         Console.WriteLine("Enter element at position ({i + 1}, {j + 1}):");
25         matrix[i, j] = int.Parse(Console.ReadLine());
26     }
27 }
28
29 //Addition
30 static void PrintMatrix(int[,] matrix, int rows, int columns)
31 {
32     for (int i = 0; i < rows; i++)
33     {
34         for (int j = 0; j < columns; j++)
35         {
36             Console.Write(matrix[i, j] + " ");
37         }
38         Console.WriteLine();
39     }
40 }
```

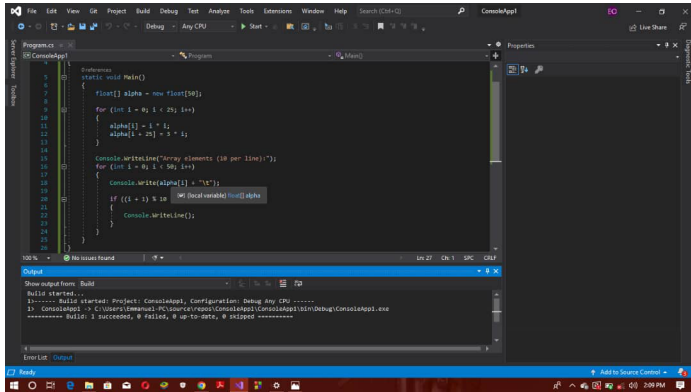
Output

```
Show output from: Build
Build started...
1:----- Build started: Project: ConsoleApp1, Configuration: Debug Any CPU -----
1> ConsoleApp1 -> C:\Users\jennanah\PC\source\repos\ConsoleApp1\ConsoleApp1\bin\Debug\ConsoleApp1.exe
----- Build: 1 succeeded, 0 failed, 0 up-to-date, 0 skipped -----
```

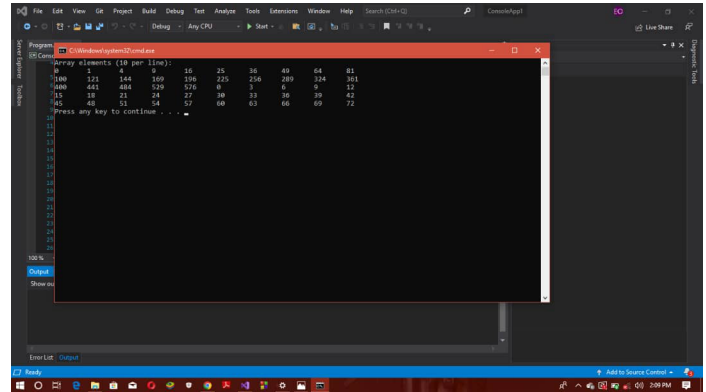


```
Enter element at position (2, 4):
1
Enter element at position (2, 5):
1
Enter element at position (3, 1):
3
Enter element at position (3, 2):
2
Enter element at position (3, 3):
3
Enter element at position (3, 4):
4
Enter element at position (3, 5):
5
Enter element at position (4, 1):
9
Enter element at position (4, 2):
11
Enter element at position (4, 3):
12
Enter element at position (4, 4):
9
Enter element at position (4, 5):
12
Resultant Matrix after addition:
5 9 11 10 12
11 9 11 10 12
11 12 9 9 12
10 9 7 10 4
Press any key to continue . . .
```

5. Write a C# program that declares an array alpha of 50 components of the type float .Initialize the array so that the first 25 components are equal to the square of the index variable and the last 25 components are equal to three times the index variable.Output the array so that 10 elements per line are printe

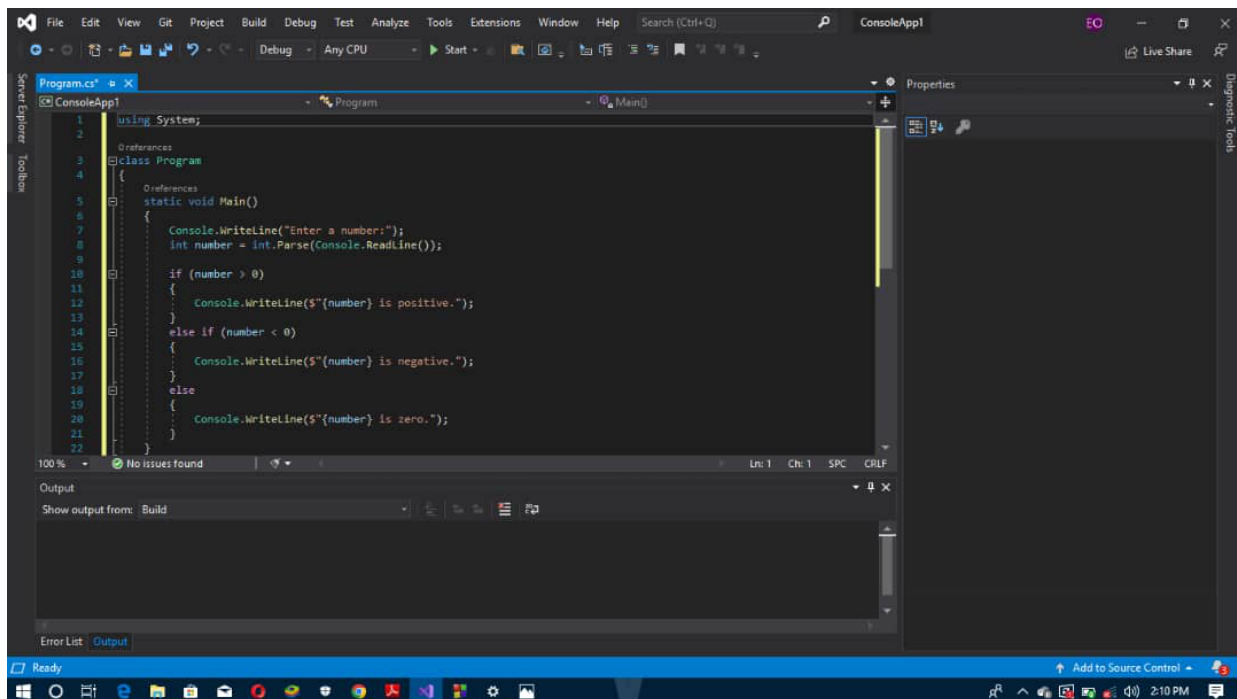


```
1 using System;
2
3 class Program
4 {
5     static void Main()
6     {
7         float[] alpha = new float[50];
8         for (int i = 0; i < 25; i++)
9         {
10             alpha[i] = i * i;
11             alpha[i + 25] = i * 3;
12         }
13         Console.WriteLine("Array elements (10 per line):");
14         for (int i = 0; i < 50; i++)
15         {
16             Console.Write(alpha[i] + " ");
17             if ((i + 1) % 10 == 0) Console.WriteLine();
18         }
19     }
20 }
```



```
Array elements (10 per line):
0 1 4 9 16 25 36 49 64 81
100 121 144 169 196 225 256 289 324 361
400 441 484 529 576 625 676 729 784 841
18 36 54 72 90 108 126 144 162 180
Press any key to continue . . .
```

6. Write a C# program that prompts the user to input a number .The program should then output the number and a message saying wether the number is positive ,negative ,or zero



```
1 using System;
2
3 class Program
4 {
5     static void Main()
6     {
7         Console.WriteLine("Enter a number:");
8         int number = int.Parse(Console.ReadLine());
9
10         if (number > 0)
11         {
12             Console.WriteLine($"{number} is positive.");
13         }
14         else if (number < 0)
15         {
16             Console.WriteLine($"{number} is negative.");
17         }
18         else
19         {
20             Console.WriteLine($"{number} is zero.");
21         }
22     }
23 }
```