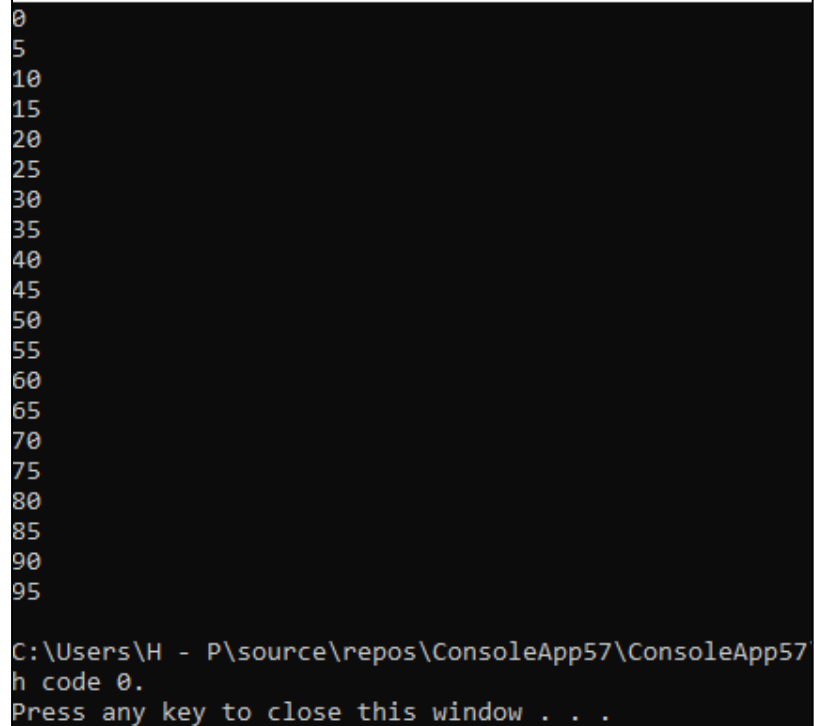


Task No. 1: Write a program, which creates an array of 20 elements of type integer and initializes each of the elements with a value equals to the index of the element multiplied by 5. Print the elements to the console.

Solution:

```
using System;

namespace ConsoleApp57
{
    class Program
    {
        static void Main(string[] args)
        {
            int[] array = new int[20];
            for(int i = 0; i < array.Length; i++)
            {
                array[i] = i * 5;
                Console.WriteLine(array[i]);
            }
        }
    }
}
```

Output:

```
0
5
10
15
20
25
30
35
40
45
50
55
60
65
70
75
80
85
90
95

C:\Users\H - P\source\repos\ConsoleApp57\ConsoleApp57
h code 0.
Press any key to close this window . . .
```

Task No. 2: Write a program, which reads two arrays from the console and checks whether they are equal (two arrays are equal when they are of equal length and all of their elements, which have the same index, are equal).

Solution:

```
using System;

namespace ConsoleApp57
{
    class Program
    {
        static void Main(string[] args)
        {
            bool equal = false;
            Console.WriteLine("Enter Length of array 1: ");
            int num1 = int.Parse(Console.ReadLine());
            int[] array1 = new int[num1];
            Console.WriteLine("Enter the values of array 1: ");
            for (int i = 0; i < num1; i++)
            {
                array1[i] = int.Parse(Console.ReadLine());
            }
            Console.WriteLine("Enter Length of array 2: ");
            int num2 = int.Parse(Console.ReadLine());
            int[] array2 = new int[num2];
            Console.WriteLine("Enter the values of array 2: ");
            for (int i = 0; i < num2; i++)
            {
                array2[i] = int.Parse(Console.ReadLine());
            }
            if (num1 == num2)
            {
                for (int j = 0; j < array1.Length; j++)
                {
                    if (array1[j] == array2[j])
                    {
                        equal = true;
                    }
                }
            }
            if (equal == true)
            {
                Console.WriteLine("Both the arrays are equal");
            }
            else
            {
                Console.WriteLine("Both the arrays are NOT equal");
            }
        }
    }
}
```

```
}  
}  
}
```

Output:

```
Microsoft Visual Studio Debug Console  
Enter Length of array 1:  
3  
Enter the values of array 1:  
852  
963  
741  
Enter Length of array 2:  
3  
Enter the values of array 2:  
963  
741  
852  
Both the arrays are NOT equal  
C:\Users\H - P\source\repos\ConsoleApp57\ConsoleApp57\  
th code 0.  
Press any key to close this window . . .
```

```
Microsoft Visual Studio Debug Console  
Enter Length of array 1:  
3  
Enter the values of array 1:  
8  
5  
2  
Enter Length of array 2:  
3  
Enter the values of array 2:  
2  
5  
8  
Both the arrays are equal  
C:\Users\H - P\source\repos\ConsoleApp57\ConsoleApp57\bin\Debug  
th code 0.  
Press any key to close this window . . .
```

[Lab no. 08]

[COMPUTER PROGRAMING] [Implementation of ARRAYS]

Task No. 3: Make a program in C# in which take 5 numbers from user and then give sum and avg. of them. Using arrays.

Solution:

```
using System;

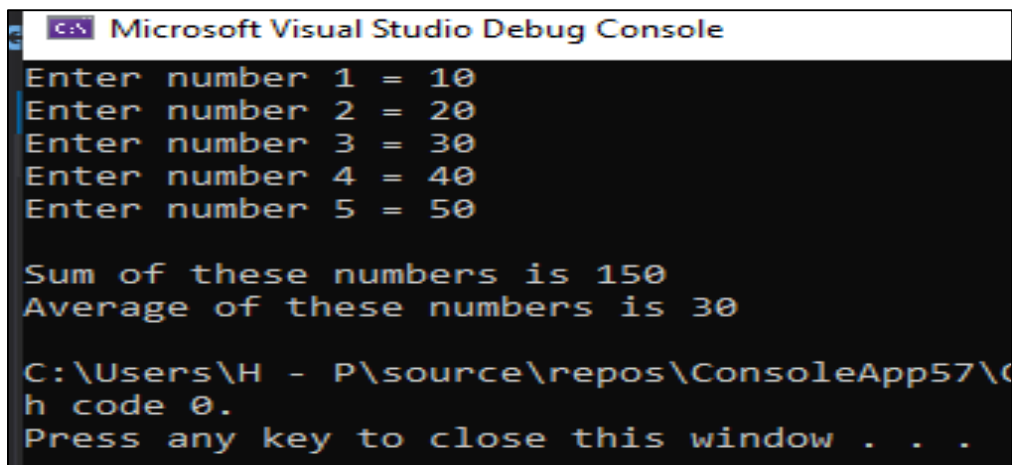
namespace ConsoleApp57
{
    class Program
    {
        static void Main(string[] args)
        {

            int SUM = 0;
            double AVG ;

            int[] num = new int[5];
            for(int i=0; i < 5; i++)
            {
                Console.Write("Enter number {0} = ", i + 1);
                num [i] = int.Parse(Console.ReadLine());
            }
            for (int i = 0; i < 5; i++)
            {
                SUM += num[i];
            }
            AVG = Convert.ToDouble (SUM) / 5;
            Console.WriteLine();
            Console.WriteLine("Sum of these numbers is " + SUM);
            Console.WriteLine("Average of these numbers is " + AVG);

        }
    }
}
```

Output:



```
C:\> Microsoft Visual Studio Debug Console

Enter number 1 = 10
Enter number 2 = 20
Enter number 3 = 30
Enter number 4 = 40
Enter number 5 = 50

Sum of these numbers is 150
Average of these numbers is 30

C:\Users\H - P\source\repos\ConsoleApp57\c
h code 0.
Press any key to close this window . . .
```