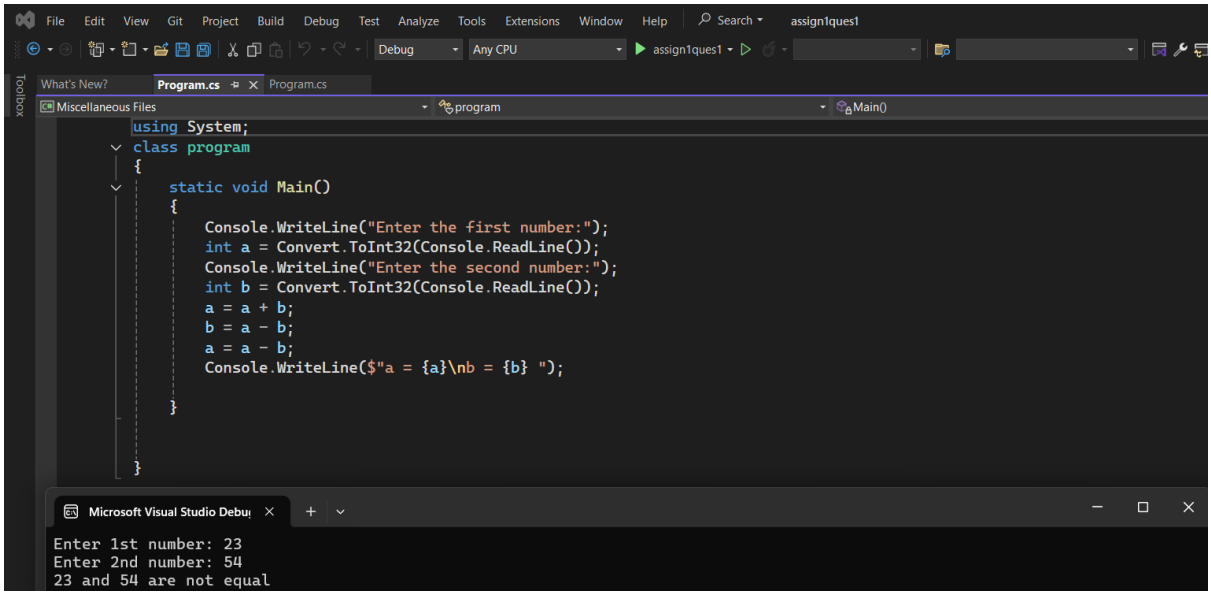
1. Write a C# Sharp program to swap two numbers.using System;

```
class program
{
   static void Main()
   {
      Console.WriteLine("Enter the first number:");
      int a = Convert.ToInt32(Console.ReadLine());
      Console.WriteLine("Enter the second number:");
      int b = Convert.ToInt32(Console.ReadLine());
      a = a + b;
      b = a - b;
      a = a - b;
      Console.WriteLine($"a = {a}\nb = {b} ");

   }
}
```

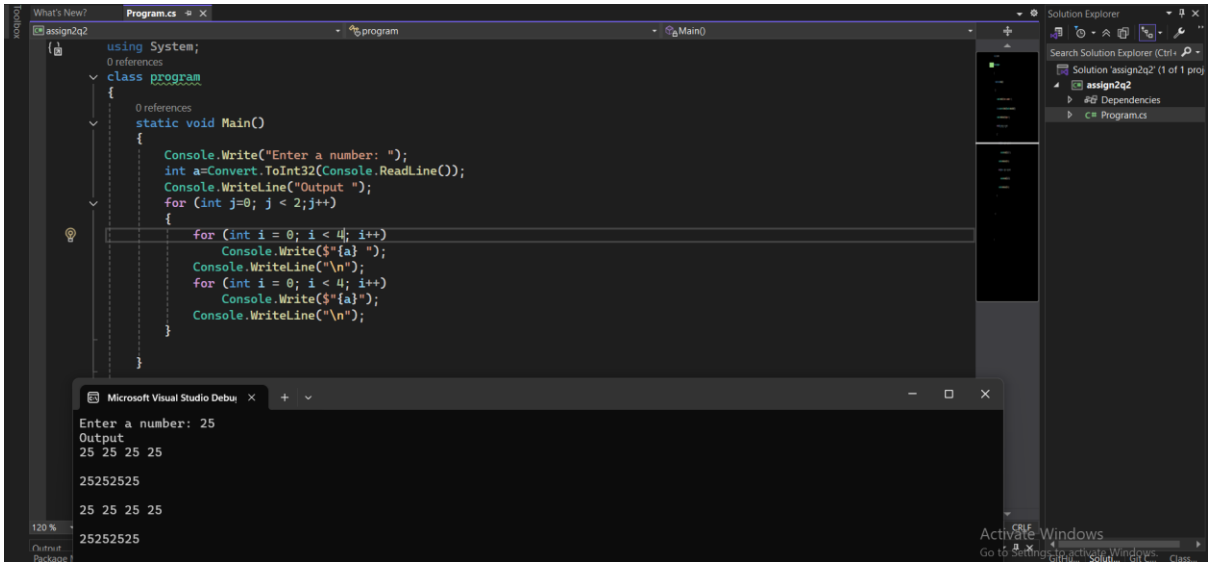


2. Write a C# program that takes a number as input and displays it four times in a row (separated by blank spaces), and then four times in the next row, with no separation. You should do it twice: Use the console. Write and use {0}.

Test Data:
Enter a digit: 25
Expected Output:
25 25 25 25
25252525
25 25 25 25
25252525

```
using System;
class program
{
   static void Main()
   {
      Console.Write("Enter a number: ");
      int a=Convert.ToInt32(Console.ReadLine());
      Console.WriteLine("Output ");
      for (int j=0; j < 2;j++)
      {
         for (int i = 0; i < 4; i++)
            Console.Write($"{a} ");
         Console.WriteLine("\n");
         for (int i = 0; i < 4; i++)
            Console.Write($"{a}");
         Console.WriteLine("\n");
      }

   }
}
```

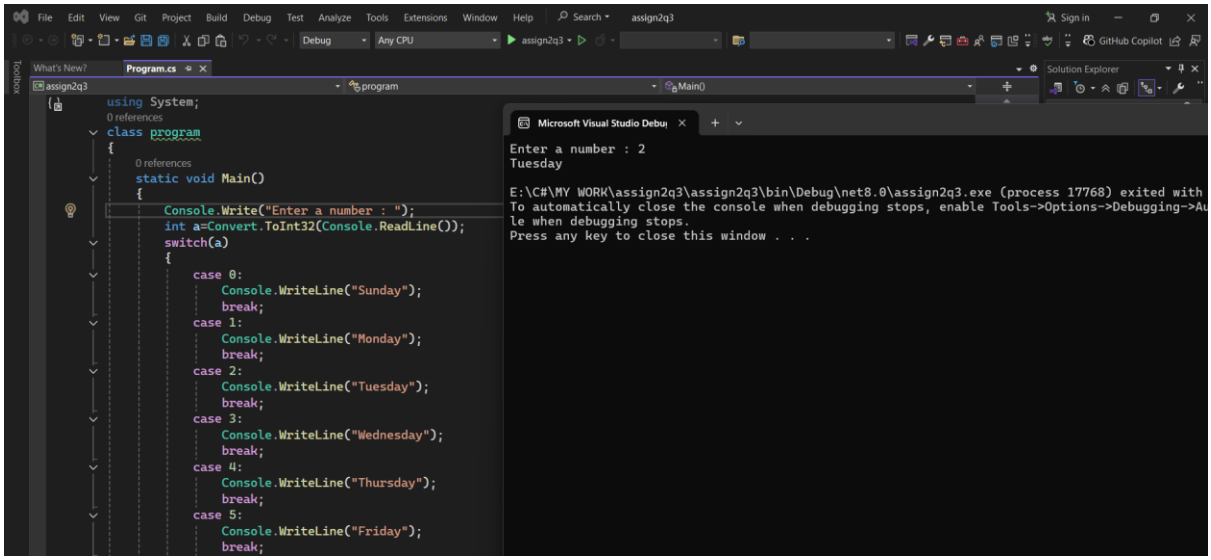


3. Write a C# Sharp program to read any day number as an integer and display the name of the day as a word.

Test Data / input: 2

Expected Output :Tuesday

```
using System;
class program
{
   static void Main()
   {
      Console.Write("Enter a number : ");
      int a=Convert.ToInt32(Console.ReadLine());
      switch(a)
      {
         case 0:
            Console.WriteLine("Sunday");
            break;
         case 1:
            Console.WriteLine("Monday");
            break;
         case 2:
            Console.WriteLine("Tuesday");
            break;
         case 3:
            Console.WriteLine("Wednesday");
            break;
         case 4:
            Console.WriteLine("Thursday");
            break;
         case 5:
            Console.WriteLine("Friday");
            break;
         case 6:
            Console.WriteLine("Saturday");
            break;
         default:
            Console.WriteLine("Invalid");
            break;
      }
   }
}
```



Arrays :

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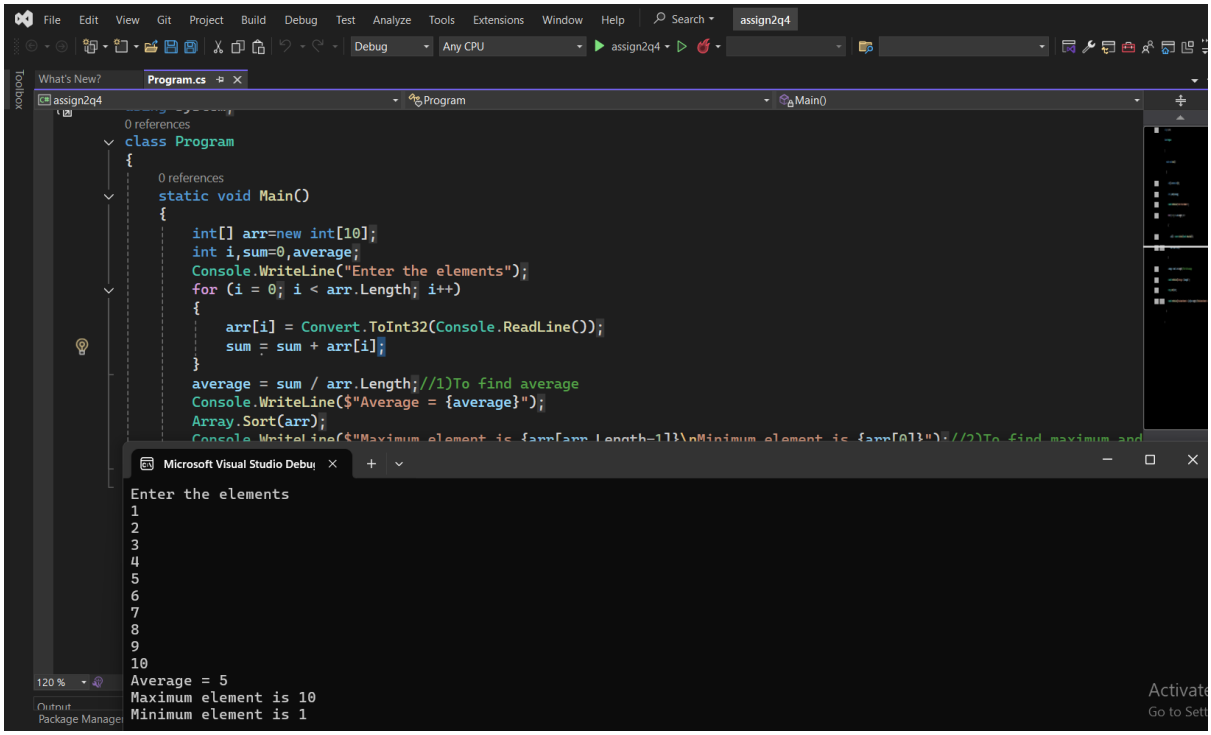
1. Write a Program to assign integer values to an array and then print the following

    a. Average value of Array elements

    b. Minimum and Maximum value in an array

```
using System;
class Program
{
   static void Main()
   {
      int[] arr=new int[10];
      int i,sum=0,average;
      Console.WriteLine("Enter the elements");
      for (i = 0; i < arr.Length; i++)
      {
         arr[i] = Convert.ToInt32(Console.ReadLine());
         sum = sum + arr[i];
      }
      average = sum / arr.Length;//1)To find average
      Console.WriteLine($"Average = {average}");
      Array.Sort(arr);
      Console.WriteLine($"Maximum element is {arr[arr.Length-1]}\nMinimum element is
{arr[0]}");//2)To find maximum and mininum elements
   }
}
```



2. Write a program in C# to accept ten marks and display the following

   a. Total

   b. Average

   c. Minimum marks

   d. Maximum marks

   e. Display marks in ascending order

   f. Display marks in descending order

```
using System;
class Program
{
   static void Main()
   {
      int[] arr = new int[10];
      int i, sum = 0, average;
      Console.WriteLine("Enter the elements");
      for (i = 0; i < arr.Length; i++)
      {
         arr[i] = Convert.ToInt32(Console.ReadLine());
         sum = sum + arr[i];
      }
```

```
        average = sum / arr.Length;//1)To find average
        Console.WriteLine($"Total = {sum}\nAverage = {average}");
        Array.Sort(arr);
        Console.WriteLine($"Maximum marks = {arr[arr.Length - 1]}\nMinimum marks = {arr[0]}");//2)To
find maximum and mininum elements
        Console.Write("Ascending order: ");
        for (i=0;i<arr.Length; i++)
            Console.Write($"{ arr[i]} ");
        Array.Reverse(arr);
        Console.Write("\nDescending order: ");
        for (i = 0; i < arr.Length; i++)
            Console.Write($"{arr[i]} ");
    }
}
```