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} ");
    }
}
```

```
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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} ");

}

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Enter 1st number: 24

23 and 54 are not equal
```

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;
    }
  }
}
```

```
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```

Arrays:

- 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
}
```

```
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```

- 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];
        }
}</pre>
```

```
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]}");
   }
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               Program.cs Program.cs
              using System;
      { <u>}</u>
                  0 references
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++)</pre>
                           arr[i] = Convert.ToInt32(Console.ReadLine());
sum = sum + arr[i];
         Enter the elements
         10
Total = 55
        Maximum marks = 10
Minimum marks = 10
Minimum marks = 1
Ascending order: 1 2 3 4 5 6 7 8 9 10
Descending order: 10 9 8 7 6 5 4 3 2 1
```