

Tutorial

1)

```
using System;

namespace ConsoleApp3
{
    internal class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("Hello, World!");
        }
    }
}
```

2)

```
using System;

namespace ConsoleApp3
{
    internal class Program
    {
        static void Main(string[] args)
        {
            Console.Write("Enter an Integer :-");
            int value = Convert.ToInt32(Console.ReadLine());
            Console.WriteLine("Entered Value = {0}",value);
        }
    }
}
```

3)

```
using System;
namespace ConsoleApp3
{
    internal class Program
    {
        static void Main(string[] args)
        {
            Console.Write("Enter 1st Integer :-");
            int value1 = Convert.ToInt32(Console.ReadLine());

            Console.Write("Enter 2nd Integer :-");
            int value2 = Convert.ToInt32(Console.ReadLine());

            int Tot = value1 + value2;
            Console.WriteLine("\nSum of integers:- {0}",Tot);
        }
    }
}
```

4)

```
using System;
namespace ConsoleApp3
{
    internal class Program
    {
        static void Main(string[] args)
        {
            Console.Write("Enter 1st Float :- ");
            float value1 = Single.Parse(Console.ReadLine());
            //convert string to float using Parse Method

            Console.Write("Enter 2nd Float :- ");
            float value2 = Convert.ToSingle(Console.ReadLine());
            //convert string to float via Convert.ToSingle

            float Mul = value1 * value2;
            Console.WriteLine("Multiplication of {0} and {1} is :-
{2:f3}", value1, value2, Mul);

            //f3 to keep only 3 decimal places
        }
    }
}
```

5)

```
using System;

namespace ConsoleApp3
{
    internal class Program
    {
        static void Main(string[] args)
        {
            float Flt1, Flt2, Mul;

            Flt1 = 32.4f;
            Flt2 = 10.01f;

            Mul = Flt1 * Flt2;

            Console.WriteLine("Multiplication of {0} and {1} is
{2:f2}", Flt1, Flt2, Mul);
        }
    }
}
```

6)

```
using System;
namespace ConsoleApp3
{
    internal class Program
    {
        static void Main(string[] args)
        {
            //interest =ptr/100;

            float interest, principal, time, rate;

            Console.WriteLine("\t**Interest Calculator** \n ");

            Console.Write("Enter Principal Amount:-");
            principal = Convert.ToSingle(Console.ReadLine());

            Console.Write("Enter Time Period(years):- ");
        }
    }
}
```

```

        time = Convert.ToSingle(Console.ReadLine());

        Console.Write("Enter interest Rate:- ");
        rate = Convert.ToSingle(Console.ReadLine());

        interest = (principal*time*rate)/ 100;
        Console.WriteLine("\n**Interest of Rs.{0} per {1} years to
the rate of {2}% is {3} ",principal,time,rate,interest);

    }
}

```

7)

```

using System;

namespace ConsoleApp3
{
    internal class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("\t**Area of a Rectangle**");
            float width, length, area;

            Console.Write("Enter Width of the Rectangle :-");
            width = Convert.ToSingle(Console.ReadLine());

            Console.Write("Enter Length of the Rectangle :-");
            length = Convert.ToSingle(Console.ReadLine());

            area = width * length;

            Console.WriteLine("\n* Area of the Rectangle is :-" +area);
        }
    }
}

```

8.

```
using System;

namespace ConsoleApp3
{
    internal class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("/t**Area and Perimeter Calculator of  
Circle**");
            //area of a circle  $A=\pi r^2$ 
            //perimeter of a circle  $C=2\pi r$  (C = circumference)

            double area, radius, circumference;
            double PI = 3.1415;

            Console.Write("Enter Radius:- ");
            radius = Convert.ToSingle(Console.ReadLine());

            area = PI * radius * radius;
            circumference = 2 * PI * radius;

            Console.WriteLine("* Perimeter of the circle :- {0:f2} ",  
circumference);
            Console.WriteLine("* Area of the circle :- {0:f2} ", area);

        }
    }
}
```

9.

```
using System;

namespace ConsoleApp3
{
    internal class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("\t** Find the Average of 3 Numbers
**\n");

            float Num1, Num2, Num3, Ave;
            Console.Write("Enter 1st Number:- ");
            Num1 = Convert.ToSingle(Console.ReadLine());

            Console.Write("Enter 2nd Number:- ");
            Num2 = Convert.ToSingle(Console.ReadLine());

            Console.Write("Enter 3rd Number:- ");
            Num3 = Convert.ToSingle(Console.ReadLine());

            Ave = (Num1 + Num2 + Num3) / 3;

            Console.WriteLine("\nAverage of {0},{1} and {2} is :- {3}",
Num1, Num2, Num3, Ave);
        }
    }
}
```

10.

```
using System;

namespace ConsoleApp3
{
    internal class Program
    {
        static void Main(string[] args)
        {
            //Math.Pow(Base,Power)

            Console.WriteLine("\t ** Calculate a number raise to the
power of some other number **\n");
            double Base, Power, Ans;
            Console.Write("Enter a Number (Base) :- ");
            Base= Convert.ToSingle(Console.ReadLine());

            Console.Write("Enter the Power :- ");
            Power = Convert.ToSingle(Console.ReadLine());

            Ans = Math.Pow(Base, Power);
            Console.WriteLine("\n {0} to the power of {1} is :- {2} ",
Base, Power, Ans);
        }
    }
}
```

```

using System;
using System.ComponentModel.DataAnnotations;

namespace ConsoleApp3
{
    internal class Program
    {
        static void Main(string[] args)
        {
            // string trimmed_text = whole_text.Trim();
            //string[] split_text = trimmed_text.Split(' ');

            Console.WriteLine("\t**Word Count**\n");

            Console.Write("Enter a paragraph:- ");
            string whole_text = Console.ReadLine();
            string trimmed_text = whole_text.Trim();
            string[] split_text = trimmed_text.Split(' ');
            int space_count = 0;
            string new_text = "";

            foreach (string av in split_text)
            {
                if (av == "")
                {
                    space_count++;
                }
                else
                {
                    new_text = new_text + av + ",";
                }
            }

            new_text = new_text.TrimEnd(',');
            split_text = new_text.Split(',');
            Console.WriteLine("Words count in this paragraph is :-
{0}",split_text.Length.ToString());

        }
    }
}

```


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```
using System;

namespace ConsoleApp3
{
    internal class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("\t ** Currency Converter **\n");
            Console.WriteLine("Type 1 or 2 as your choice\n");
            Console.WriteLine("1 . USD to LKR \n2 . LKR to USD\n");

            Console.Write("* Eneter your Choice :- ");
            int choise = Convert.ToInt32(Console.ReadLine());

            //1 USD, 365.391 LKR

            double RateofRs = 365.391, Val;
            if (choise==2)
            {
                Console.Write("\nEnter Amount Rs:- ");
                double Rs = Convert.ToDouble(Console.ReadLine());

                Val = Rs/RateofRs;
                Console.WriteLine("\n * Rs {0} is :- USD {1:f3}\n", Rs,
Val);
            }
            else if (choise == 1)
            {
                Console.Write("\nEnter Amount USD :- ");
                double Usd = Convert.ToDouble(Console.ReadLine());

                Val = Usd * RateofRs;
                Console.WriteLine("\n * USD {0} is :- Rs.{1:f2}\n", Usd,
Val);
            }
            else
            {
                Console.Write("\n !! Invalid Choise !!\n");
            }
        }
    }
}
```

13.

```
using System;

namespace ConsoleApp3
{
    internal class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("\t ** Find Odd or Even **\n");
            Console.Write("Enter a Number :- ");
            int num = Convert.ToInt32(Console.ReadLine());

            if (num%2 == 0)
            {
                Console.WriteLine("\n** {0} is an Even Number ** \n ",
num);
            }
            else if(num%2 == 1)
            {
                Console.WriteLine("\n ** {0} is an Odd Number ** \n",
num);
            }
            else
            {
                Console.WriteLine("!! Invalid !!");
            }
        }
    }
}
```

14.

```
using System;
using System.ComponentModel.DataAnnotations;

namespace ConsoleApp3
{
    internal class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("\t ** Find the Max **\n");
            Console.Write("Enter 1st Number :- ");
            double num1 = Convert.ToInt32(Console.ReadLine());
            Console.Write("Enter 2nd Number :- ");
            double num2 = Convert.ToInt32(Console.ReadLine());
            Console.Write("Enter 3rd Number :- ");
            double num3 = Convert.ToInt32(Console.ReadLine());

            double Max = Math.Max(num1, Math.Max( num2, num3));
            Console.WriteLine("\n** The Maximum value of {0}, {1} and
{2} is :- {3}", num1, num2, num3, Max);
        }
    }
}
```

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```
using System;
using System.ComponentModel.DataAnnotations;

namespace ConsoleApp3
{
    internal class Program
    {
        static void Main(string[] args)
        {
            SortedList<int, string> Num_and_Months = new SortedList<int,
string>()
            {
                {1, "January"}, {2, "February"}, {3, "March"},
                {4, "April" }, {5, "May" }, {6, "June"},
                {7, "July" }, {8, "August" }, {9, "September"},
                {10, "October" }, {11, "November" }, {12, "December"
            }
        };

        Console.WriteLine("\t ** Find Month Name **\n");
    }
}
```

```
    Console.Write("Enter Month Number :- ");
    int MonthNum = Convert.ToInt16(Console.ReadLine());

    if (MonthNum <= 12 && MonthNum >= 1)
    {
        Console.WriteLine("\n** {0} is the {1}' th Month **\n",
Num_and_Months[MonthNum], MonthNum);
    }
    else
        Console.WriteLine("\n\t!! Invalid Month Number !!\n");
}
}
```