1. Write a program in c# to initialize 3 variables and print their values.

```csharp
using System;
class Program
{
    Static void Main(String[] args)
    {
        int num = 10;
        string name = "Sumit";
        double price = 99.5;
        Console.WriteLine("Number: " + num);
        Console.WriteLine(" Name: " + name);
        Console.WriteLine(" Price: " + price);
    }
}
```

Output: -

Number: 10
Name: Sumit
Price: 99.5

2. Write a C# program to findout the area of circle using named constant PI value.

```csharp
using System;
class program
{   const double PI = 3.14159;
    static void Main(String[] args)
    {

        double radius = 0;
        Console.WriteLine("Enter the radius of circle: ");
        radius = Convert.ToDouble(Console.ReadLine());
        double area = PI * radius * radius;
        Console.WriteLine("Radius of circle is: " + radius + " and
            area is: " + area);
    }
}
```

Output:-

Enter the radius of circle: 5
Radius of circle is 5 and area is 78.53975

3. Write a c# program to find out the hypotenuse of a triangle, where base and height is given.

```
using System;
class program
{
    static void Main(String[] angs)
    {
        double Base, height;
        Console.WriteLine(" Enter the Base of triangle:");
        Base = Convent.ToDouble(Console.ReadLine());

        Console.WriteLine("Enter the height of triangle:");
        height = Convent.ToDouble(Console.ReadLine());

        double hypotenuse = Math.Sqrt((Base * Base) + (height * height));

        Console.WriteLine(" Hypotenuse of the triangle is:" + hypotenuse);
    }
}
```

Output:-

Enter the base of triangle: 3
Enter the height of triangle: 4
Hypotenuse of the triangle is: 5

4. Write a C# program to findout maximum range of decimal, float and double datatype in exponent format.

```
using System;
class program
{
    Static void Main (String[] args)
    {
        Console.WriteLine (" the max range of decimal datatype
                is {0:E} ", Decimal.MaxValue);
        Console.WriteLine (" The max range of float datatype is
                {0:E} ", Single.MaxValue);
        Console.WriteLine (" The max range of double datatype is
                {0:E} ", Double.MaxValue);
    }
}
```

Output:-

The max range of decimal datatype is 7.9228E+28
The max range of float datatype is 3.4028E+38
The max range of double datatype is 1.7977E+308