using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace PowerOfNumber\_Recursion

{

class Program

{

static void Main(string[] args)

{

Recursion rc = new Recursion();

rc.Print();

Console.WriteLine("Please enter to exit application");

Console.ReadLine();

}

}

public class Recursion

{

public void Print()

{

int bNum, pwr;

int result;

Console.Write("\n\n Recursion : Calculate power of any number :\n");

Console.Write("------------------------------------------------\n");

Console.Write(" Input the base value : ");

bNum = Convert.ToInt32(Console.ReadLine());

Console.Write(" Input the exponent : ");

pwr = Convert.ToInt32(Console.ReadLine());

result = CalcuOfPower(bNum, pwr);//called the function CalcuOfPower

Console.Write(" The value of {0} to the power of {1} is : {2} \n\n", bNum, pwr, result);

}

public static int CalcuOfPower(int x, int y)

{

if (y == 0)

return 1;

else

return x \* CalcuOfPower(x, y - 1);

}

}

}

Output :

