***Lab 12: Assignment of calculator***

Source code:

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace ConsoleApplicationUl

{

class calculator

{

public float ans;

public float no1;

public float no2;

public int op;

public float add(float num1 , float num2)

{

ans = num1 + num2;

Console.WriteLine("Answer is " + ans);

return ans;

}

public float sub(float num1, float num2)

{

ans = num1 - num2;

Console.WriteLine("Answer = " + ans);

return ans;

}

public float multi(float num1, float num2)

{

ans = num1 \* num2;

Console.WriteLine("Answer = " + ans);

return ans;

}

public float divide(float num1, float num2)

{

ans = num1 / num2;

Console.WriteLine("Answer = " + ans);

return ans;

}

public float modulo(float num1, float num2)

{

ans = num1 % num2;

Console.WriteLine("Answer = " + ans);

return ans;

}

public float power(float num1)

{

ans = num1 \* num1;

Console.WriteLine("Answer = " + ans);

return ans;

}

public float cubic(float num1)

{

ans = num1 \* num1 \* num1;

Console.WriteLine("Answer = " + ans);

return ans;

}

public float sin(float num1, float num2)

{

ans = num1 / num2;

Console.WriteLine("Answer = " + Math.Sin(ans) + " radian ");

return ans;

}

public float cos(float num1, float num2)

{

ans = num1 / num2;

Console.WriteLine("Answer = " + Math.Cos(ans) + " radian");

return ans;

}

public float tan(float num1, float num2)

{

ans = num1 / num2;

Console.WriteLine("Answer = " + Math.Tan(ans) + " radian");

return ans;

}

}

class Program

{

static void Main(string[] args)

{

calculator cal = new calculator();

Console.WriteLine("\t\t\t====Calculator====\t\t\t \n");

Console.WriteLine("MENU: \n");

Console.WriteLine("Press 1 for addition \nPress 2 for substraction \nPress 3 for multiplication \nPress 4 for division \nPress 5 for modulo \nPress 6 for power \nPress 7 for cubic \nPress 8 for sin \npress 9 for cos \nPress 10 for tan \n");

Console.WriteLine("Enter any operator ");

cal.op = Convert.ToInt32(Console.ReadLine());

if (cal.op == 1 || cal.op == 2 || cal.op == 3 || cal.op == 4 || cal.op == 5 || cal.op == 6 || cal.op == 7 || cal.op == 8 || cal.op == 9 || cal.op == 10)

{

switch (cal.op)

{

case 1:

Console.WriteLine("Enter first number ");

cal.no1 = Convert.ToInt32(Console.ReadLine());

Console.WriteLine("Enter second number ");

cal.no2 = Convert.ToInt32(Console.ReadLine());

cal.add(cal.no1, cal.no2);

break;

case 2:

Console.WriteLine("Enter first number ");

cal.no1 = Convert.ToInt32(Console.ReadLine());

Console.WriteLine("Enter second number ");

cal.no2 = Convert.ToInt32(Console.ReadLine());

cal.sub(cal.no1, cal.no2);

break;

case 3:

Console.WriteLine("Enter first number ");

cal.no1 = Convert.ToInt32(Console.ReadLine());

Console.WriteLine("Enter second number ");

cal.no2 = Convert.ToInt32(Console.ReadLine());

cal.multi(cal.no1, cal.no2);

break;

case 4:

Console.WriteLine("Enter first number ");

cal.no1 = Convert.ToInt32(Console.ReadLine());

Console.WriteLine("Enter second number ");

cal.no2 = Convert.ToInt32(Console.ReadLine());

cal.divide(cal.no1, cal.no2);

break;

case 5:

Console.WriteLine("Enter first number ");

cal.no1 = Convert.ToInt32(Console.ReadLine());

Console.WriteLine("Enter second number ");

cal.no2 = Convert.ToInt32(Console.ReadLine());

cal.modulo(cal.no1, cal.no2);

break;

case 6:

Console.WriteLine("Enter first number ");

cal.no1 = Convert.ToInt32(Console.ReadLine());

cal.power(cal.no1);

break;

case 7:

Console.WriteLine("Enter first number ");

cal.no1 = Convert.ToInt32(Console.ReadLine());

cal.cubic(cal.no1);

break;

case 8:

Console.WriteLine("Enter perpendicular ");

cal.no1 = Convert.ToInt32(Console.ReadLine());

Console.WriteLine("Enter hypotenuse ");

cal.no2 = Convert.ToInt32(Console.ReadLine());

cal.sin(cal.no1, cal.no2);

break;

case 9:

Console.WriteLine("Enter base ");

cal.no1 = Convert.ToInt32(Console.ReadLine());

Console.WriteLine("Enter hypotenuse ");

cal.no2 = Convert.ToInt32(Console.ReadLine());

cal.cos(cal.no1, cal.no2);

break;

case 10:

Console.WriteLine("Enter perpendicular ");

cal.no1 = Convert.ToInt32(Console.ReadLine());

Console.WriteLine("Enter base ");

cal.no2 = Convert.ToInt32(Console.ReadLine());

cal.tan(cal.no1, cal.no2);

break;

default:

Console.WriteLine("Not available");

break;

}

}

else

{

Console.WriteLine("Your choice is wrong");

}

Console.ReadKey();

}

}

}

Ouput:



