Delegates

//Program.cs

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

delegate int aptr(int no1,int no2);

delegate int sptr(int no1, int no2);

delegate int mptr(int no1, int no2);

delegate int dptr(int no1, int no2);

delegate int MarvellousDel(int no1,int no2);

delegate int mcast(int no1, int no2);

namespace Assignment\_5

{

class Program

{

static void Main(string[] args)

{

int no1;

int no2;

Console.WriteLine("Enter the value No1");

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

Console.WriteLine("Enter the value No2");

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

Arithmatic ob = new Arithmatic();

aptr obj1 = new aptr(ob.Add);

Console.WriteLine("Addition is {0}",obj1(no1,no2));

//

sptr obj2 = new sptr(ob.Sub);

Console.WriteLine("Subtraction is {0}", obj2(no1, no2));

//

mptr obj3 = new mptr(ob.Mult);

Console.WriteLine("Multiplication is is {0}", obj3(no1, no2));

dptr obj4 = new dptr(ob.Div);

Console.WriteLine("Division is {0}",obj4(no1, no2));

Console.WriteLine("-------------Array of Delegates-------------");

MarvellousDel[] Dobj = new MarvellousDel[4];

Dobj[0] = new MarvellousDel(ob.Add);

Console.WriteLine("Addition is {0}",ob.Add(no1,no2));

Dobj[1] = new MarvellousDel(ob.Sub);

Console.WriteLine("subtraction is {0}", ob.Sub(no1, no2));

Dobj[2] = new MarvellousDel(ob.Mult);

Console.WriteLine("Multiplication is {0}", ob.Mult(no1, no2));

Dobj[0] = new MarvellousDel(ob.Div);

Console.WriteLine("Division is {0}", ob.Div(no1, no2));

Console.WriteLine("-------------multicast Delegates-------------");

mcast del = new mcast(ob.Add);

del = new mcast(ob.Add);

Console.WriteLine("Addition is {0}", del(no1, no2));

del = new mcast(ob.Sub);

Console.WriteLine("substraction is {0}", del(no1, no2));

del = new mcast(ob.Mult);

Console.WriteLine("Multiplication is {0}", del(no1, no2));

del = new mcast(ob.Div);

Console.WriteLine("Division is {0}", del(no1, no2));

}

}

}

//Arithmatic.cs

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Assignment\_5

{

class Arithmatic

{

public int Add(int no1,int no2)

{

return no1+no2;

}

public int Sub(int no1,int no2)

{

return no1 - no2;

}

public int Mult(int no1,int no2)

{

return no1 \* no2;

}

public int Div(int no1,int no2)

{

return no1 / no2;

}

}

}