C# INTERMEDIATE

FIELDS

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Intermediate\_9\_Fields

{

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

// NOTES

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

// A Field is like a variable that is stored at the Class Level.

// It is used to store data about the class.

//========================

// INITIALIZATION

//========================

// You can initialize fields without having to use a Constructor.

// Below is an example of initializing a List<Order> field

// to an empty list.

/\*

public class Customer

{

List<Order> Orders = new List<Order>();

}

\*/

//========================

// READ ONLY MODIFIER

//========================

// You can assign a field with the Read Only Modifier to make sure that

// the field is only assigned ONCE.

// This means that the field needs to be initialized directly at the class level

// or it has to be initialized in a Constructor.

// The Read Only modifier is used to create some kind of safety

class Program

{

static void Main(string[] args)

{

var customer = new Customer(1);

customer.Orders.Add(new Order());

customer.Orders.Add(new Order());

Console.WriteLine(customer.Orders.Count());

}

}

}

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Intermediate\_9\_Fields

{

public class Customer

{

public int Id;

public string Name;

public readonly List<Order> Orders = new List<Order>();

public Customer(int id)

{

this.Id = id;

}

public Customer(int id, string name)

: this(id)

{

this.Name = name;

}

public void Promote()

{

// Initializing the Orders List result in the List being emptied out again.

// All Orders that were added to the list would now be gone.

// This is an instance where you would want to use the Read Only Modifier.

// Orders = new List<Order>();

}

}

}

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Intermediate\_9\_Fields

{

public class Order

{

}

}