

Net_Assignment_02

```
using System;
using System.Globalization;
using System.Runtime.InteropServices;
using System.Formats;
using Attribute;
using MainData;

delegate void MilkInputDisplay(string Milkname = "", string ProductionDate = "01/01/2021",
    string ExpiredDate = "01/01/2022", int Quantity = 0);

namespace Assignment_02
{
    0 references
    class Program
    {
        0 references
        static void Main(string[] args)
        {
            Milk milk = new Milk();
            milk.ValMilkName = "Vinamilk";
            milk.ValProductionDate = "01/03/2016";
            milk.ValExpiredDate = "01/03/2017";
            milk.ValQuantity = 100;

            Console.WriteLine("Thong Tin MILK la:");
            Console.WriteLine("\t MilkID = {0}, MilkName = {1}", milk.ValMilkID, milk.ValMilkName);
            Console.WriteLine("\t ProductionDate = {0}, ExpiredDate = {1}", milk.ValProductionDate, milk.ValExpiredDate);
            Console.WriteLine("\t Quantity = {0} Boxes", milk.ValQuantity);

            Type type = typeof(Milk);
            string OutputMessage = "Thong Tin Them:";
            foreach (Object attributes in type.GetCustomAttributes(false))
            {
                MilkMoreInfo cinfo = (MilkMoreInfo)attributes;
                if (cinfo != null)
                {
                    Console.WriteLine(OutputMessage);
                    OutputMessage = String.Format("\t Manufacturer = {0}", cinfo.Manufacturer);
                    OutputMessage += String.Format("\n\t CompanyName = {0}", cinfo.CompanyName);
                    Console.WriteLine(OutputMessage);
                }
            }

            MilkInputDisplay action1 = new MilkInputDisplay(milk.Input);
            MilkInputDisplay action2 = new MilkInputDisplay(milk.Output);

            action1.Invoke();
            action2.Invoke();

            Console.ReadLine();
        }
    }
}
```

```

57 namespace MainData
58 {
59     1 reference
60     interface InOutMilk// InputOutputMilk
61     {
62         2 references
63         void Input(string Milkname = "", string ProductionDate = "02/11/2021",
64             string ExpiredDate = "02/05/2021", int Quantity = 0);
65         2 references
66         void Output(string Milkname = "", string ProductionDate = "02/11/2021",
67             string ExpiredDate = "02/05/2021", int Quantity = 0);
68     }
69     /* namespace Attribute ...
70
71     [MilkMoreInfo("Vinamilk","Hung Duy")]
72
73     4 references
74     class Milk : InOutMilk
75     {
76         private string MilkName = "Not Assgined";
77         private string MilkID = "MILK01032016";
78         private DateTime ProductionDate;
79         private DateTime ExpiredDate;
80         private int Quantity;
81
82         1 reference
83         public Milk(string MilkName = "Not Assgined", string ProductionDate = "01/03/2016",
84             string ExpiredDate = "01/03/2017", int Quantity = 0)
85         {
86             this.MilkName = MilkName;
87             this.ProductionDate = DateTime.ParseExact(ProductionDate, "dd/MM/yyyy", CultureInfo.InvariantCulture);
88             this.ExpiredDate = DateTime.ParseExact(ExpiredDate, "dd/MM/yyyy", CultureInfo.InvariantCulture);
89             this.Quantity = Quantity;
90             this.MilkID = string.Format("MILK{0}", this.ProductionDate.ToString("ddMMyyyy"));
91         }
92
93         2 references
94         public string ValMilkID
95         {
96             get { return MilkID; }
97             set { MilkID = value; }
98         }
99
100         4 references
101         public string ValMilkName
102         {
103             get { return MilkName; }
104             set { MilkName = value; }
105         }
106     }

```

```

17     4 references
18     public string ValProductionDate
19     {
20         get { return ProductionDate.ToString("dd/MM/yyyy"); }
21         set
22         {
23             ProductionDate = DateTime.ParseExact(value, "dd/MM/yyyy", CultureInfo.InvariantCulture);
24             MilkID = String.Format("MILK{0}", this.ProductionDate.ToString("ddMMyyyy"));
25         }
26     }
27     4 references
28     public string ValExpiredDate
29     {
30         get { return ExpiredDate.ToString("dd/MM/yyyy"); }
31         set { ExpiredDate = DateTime.ParseExact(value, "dd/MM/yyyy", CultureInfo.InvariantCulture); }
32     }
33     4 references
34     public int ValQuantity
35     {
36         get { return Quantity; }
37         set { Quantity = value; }
38     }
39
40     2 references
41     public void Input(string MilkName = "", string ProductionDate = "01/01/2021", string ExpiredDate = "01/01/2022", int Quantity = 0)
42     {
43         Console.WriteLine("Input Milkname:");
44         ValMilkName = Console.ReadLine();
45         Console.WriteLine("Input ProductionDate:");
46         ValProductionDate = Console.ReadLine();
47         Console.WriteLine("Input ExpiredDate:");
48         ValExpiredDate = Console.ReadLine();
49         Console.WriteLine("Input Quantity:");
50         string q = Console.ReadLine();
51         ValQuantity = int.Parse(q);
52     }
53
54     2 references
55     public void Output(string MilkName = "", string ProductionDate = "01/01/2021", string ExpiredDate = "01/01/2022", int Quantity = 0)
56     {
57         Console.WriteLine("Thong tin Milk vua nhap:");
58         Console.WriteLine("\t MilkID = {0}, Milkname = {1}", ValMilkID, ValMilkName);
59         Console.WriteLine("\t ProductionDate = {0}, ExpiredDate = {1}", ValProductionDate, ValExpiredDate);
60         Console.WriteLine("\t Quantity = {0} hop", ValQuantity);
61     }
62 }

```

```

160 namespace Attribute
161 {
162     [AttributeUsage(AttributeTargets.All, AllowMultiple = true)]
163     4 references
164     public class MilkMoreInfo : System.Attribute
165     {
166         2 references
167         public string Manufacturer { get; set; }
168         2 references
169         public string CompanyName { get; set; }
170
171         1 reference
172         public MilkMoreInfo(string Manufacturer = "", string CompanyName = "")
173         {
174             this.Manufacturer = Manufacturer;
175             this.CompanyName = CompanyName;
176         }
177     }
178 }

```

C:\Users\ADMIN\OneDrive\Tài liệu\Computer Science\C#\Assignment\Assignment_02\bin\Debug\net5.0\Assignment_02.exe

Thong Tin MILK la:

MilkID = MILK01032016, MilkName = Vinamilk
 ProductionDate = 01/03/2016, ExpiredDate = 01/03/2017
 Quantity = 100 Boxes

Thong Tin Them:

Manufacturer = Vinamilk
 CompanyName = Hung Duy

Input Milkname:

TH Milk

Input ProductionDate:

01/01/2021

Input ExpiredDate:

01/01/2022

Input Quantity:

10

Thong tin Milk vua nhap:

MilkID = MILK01012021, Milkname = TH Milk
 ProductionDate = 01/01/2021, ExpiredDate = 01/01/2022
 Quantity = 10 hop