

Program.cs

```
1 using System;
2 using System.Collections.Generic;
3
4 namespace ConsoleApp1
5 {
6     internal class Program
7     {
8         private static void Main(string[] args)
9         {
10             List<Drink> drinks = new List<Drink>();
11             List<OrderItem> orders = new List<OrderItem>();
12
13             //新增飲料品項
14             AddNewDrink(drinks);
15
16             //列出所有飲料品項
17             DisplayDrinkMenu(drinks);
18
19             //訂購飲料
20             OrderDrink(drinks, orders);
21
22             //計算售價
23             CalculateAmount(orders);
24         }
25
26         private static void CalculateAmount(List<OrderItem> myOrders)
27         {
28             double total = 0.0;
29             string message = "";
30             double sellPrice = 0.0;
31
32             Console.WriteLine("-----");
33             foreach (OrderItem orderItem in myOrders) total += orderItem.Subtotal;
34
35             if (total >= 500)
36             {
37                 message = "訂購滿500元以上者8折";
38                 sellPrice = total * 0.8;
39             }
40             else if (total >= 300)
41             {
42                 message = "訂購滿300元以上者85折";
43                 sellPrice = total * 0.85;
44             }
45             else if (total >= 200)
46             {
47                 message = "訂購滿200元以上者9折";
48                 sellPrice = total * 0.9;
49             }
50             else
51             {
52                 message = "訂購未滿200元不打折";
53                 sellPrice = total;
54             }
55
56             Console.WriteLine($"您總共訂購{myOrders.Count}項飲料，總計{total}元。{message}，總計
57 需付款{sellPrice}元。");
```

```

58         Console.WriteLine("-----");
59     }
60
61     private static void OrderDrink(List<Drink> myDrinks, List<OrderItem> myOrders)
62     {
63         Console.WriteLine();
64         Console.WriteLine("請開始訂購飲料，按下x鍵離開。");
65         string s;
66         int index, quantity, subtotal;
67         while (true)
68         {
69             Console.Write("請輸入品名編號？ ");
70             s = Console.ReadLine();
71             if (Convert.ToInt32(s) > 5)
72             {
73                 Console.WriteLine("請輸入正確的品名編號。");
74                 continue;
75             }
76             if (s == "x")
77             {
78
79                 Console.WriteLine("謝謝惠顧，歡迎下次再來。");
80                 break;
81             }
82             else index = Convert.ToInt32(s);
83             Drink drink = myDrinks[index];
84
85             Console.Write("請輸入數量？ ");
86             s = Console.ReadLine();
87             if (s == "x")
88             {
89
90                 Console.WriteLine("謝謝惠顧，歡迎下次再來。");
91                 break;
92             }
93             else quantity = Convert.ToInt32(s);
94             subtotal = drink.Price * quantity;
95
96             Console.WriteLine($"您訂購{drink.Name}{drink.Size}{quantity}杯，每杯
97 {drink.Price}元，小計{subtotal}元");
98             myOrders.Add(new OrderItem() { Index = index, Quantity = quantity, Subtotal
99 = subtotal });
100         }
101
102     private static void DisplayDrinkMenu(List<Drink> myDrinks)
103     {
104         //列出所有飲料品項
105         //for (int i=0; i< drinks.Count; i++)
106         //{
107             Console.WriteLine($"{drinks[i].Name} {drinks[i].Size}
108 {drinks[i].Price}");
109         //}
110         Console.WriteLine("飲料清單\n");
111         Console.WriteLine(String.Format("{0,-5}{1,-5}{2,5}{3,7}", "編號", "品名", "大小", "價
112 格"));
113         int i = 0;
114         foreach (Drink drink in myDrinks)
115         {
116             Console.WriteLine($"{i,-7}{drink.Name,-8}{drink.Size,-3}
117 {drink.Price,9:C1}");
118             i++;
119         }

```

```
116 }
117
118 private static void AddNewDrink(List<Drink> myDrinks)
119 {
120     //新增飲料品項
121     //Drink drink1 = new Drink() { Name = "紅茶", Size = "大杯", Price = 50 };
122     //drinks.Add(drink1);
123     myDrinks.Add(new Drink() { Name = "紅茶", Size = "大杯", Price = 50 });
124     myDrinks.Add(new Drink() { Name = "紅茶", Size = "小杯", Price = 30 });
125     myDrinks.Add(new Drink() { Name = "綠茶", Size = "大杯", Price = 50 });
126     myDrinks.Add(new Drink() { Name = "綠茶", Size = "小杯", Price = 30 });
127     myDrinks.Add(new Drink() { Name = "咖啡", Size = "大杯", Price = 60 });
128     myDrinks.Add(new Drink() { Name = "咖啡", Size = "小杯", Price = 40 });
129 }
130 }
131 }
```