

班級:五專資工五甲

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課程名稱:視窗程式設計

**MainWindow.xaml**

```
<Window x:Class="WpfDrinkOrder.MainWindow"
        xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
        xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
        Title="飲料點餐系統" Height="600" Width="600">
    <Grid Margin="10">
        <StackPanel>
            <GroupBox Header="請選擇內用或外帶" Margin="5">
                <StackPanel Orientation="Horizontal">
                    <RadioButton Name="rbDineIn" Content="內用" Margin="10"/>
                    <RadioButton Name="rbTakeOut" Content="外帶" Margin="10"/>
                </StackPanel>
            </GroupBox>
        </StackPanel>
    </Grid>
</Window>
```

```
</StackPanel>
</GroupBox>

<GroupBox Header="請選擇飲料" Margin="5">
    <StackPanel>
        <StackPanel Orientation="Horizontal" Margin="5">
            <CheckBox Name="cbMilkTea" Content="珍珠奶茶 ($50)"
Margin="10"/>

            <Slider Name="sliderMilkTea" Minimum="0" Maximum="10"
Width="100" TickFrequency="1" IsSnapToTickEnabled="True"/>

            <Label Name="labelMilkTeaQty" Content="0杯" Width="50"/>
        </StackPanel>

        <StackPanel Orientation="Horizontal" Margin="5">
            <CheckBox Name="cbGreenTea" Content="綠茶 ($40)" Margin="10"/>
            <Slider Name="sliderGreenTea" Minimum="0" Maximum="10"
Width="100" TickFrequency="1" IsSnapToTickEnabled="True"/>
            <Label Name="labelGreenTeaQty" Content="0杯" Width="50"/>
        </StackPanel>

        <StackPanel Orientation="Horizontal" Margin="5">
            <CheckBox Name="cbLemonJuice" Content="檸檬汁 ($60)"
Margin="10"/>

            <Slider Name="sliderLemonJuice" Minimum="0" Maximum="10"
Width="100" TickFrequency="1" IsSnapToTickEnabled="True"/>

            <Label Name="labelLemonJuiceQty" Content="0杯" Width="50"/>
        </StackPanel>
    </StackPanel>
</GroupBox>

<Button Name="btnCalculate" Content="計算金額" Margin="5" Height="30"
Click="btnCalculate_Click"/>

<TextBlock Name="txtResult" Text="點餐結果將顯示於此" Margin="10"
TextWrapping="Wrap" FontSize="14"/>
</StackPanel>
</Grid>
</Window>
```

## MainWindow.xaml.cs

```
using System;
using System.Text;
using System.Windows;
using System.Windows.Controls;

namespace WpfDrinkOrder
{
    public partial class MainWindow : Window
    {
        public MainWindow()
        {
            InitializeComponent();

            sliderMilkTea.ValueChanged += Slider_ValueChanged;
            sliderGreenTea.ValueChanged += Slider_ValueChanged;
            sliderLemonJuice.ValueChanged += Slider_ValueChanged;
        }

        private void Slider_ValueChanged(object sender, RoutedEventArgs<double>
e)
        {
            labelMilkTeaQty.Content = $"{(int)sliderMilkTea.Value}杯";
            labelGreenTeaQty.Content = $"{(int)sliderGreenTea.Value}杯";
            labelLemonJuiceQty.Content = $"{(int)sliderLemonJuice.Value}杯";
        }

        private void btnCalculate_Click(object sender, RoutedEventArgs e)
```

```
{  
    int total = 0;  
    StringBuilder sb = new StringBuilder();  
  
    sb.AppendLine("【訂單明細】");  
  
    if (rbDineIn.IsChecked == true)  
        sb.AppendLine("用餐方式：內用");  
    else if (rbTakeOut.IsChecked == true)  
        sb.AppendLine("用餐方式：外帶");  
    else  
        sb.AppendLine("用餐方式：未選擇");  
  
    if (cbMilkTea.IsChecked == true)  
    {  
        int qty = (int)sliderMilkTea.Value;  
        int price = 50 * qty;  
        total += price;  
        sb.AppendLine($"珍珠奶茶 x{qty} 杯: ${price}");  
    }  
  
    if (cbGreenTea.IsChecked == true)  
    {  
        int qty = (int)sliderGreenTea.Value;  
        int price = 40 * qty;  
        total += price;  
        sb.AppendLine($"綠茶 x{qty} 杯: ${price}");  
    }  
  
    if (cbLemonJuice.IsChecked == true)  
    {  
        int qty = (int)sliderLemonJuice.Value;  
        int price = 60 * qty;  
        total += price;  
        sb.AppendLine($"檸檬汁 x{qty} 杯: ${price}");  
    }  
  
    sb.AppendLine($"原始總金額: ${total}");  
}
```

```
double discountRate = 1.0;
if (total >= 500)
    discountRate = 0.8;
else if (total >= 300)
    discountRate = 0.85;
else if (total >= 200)
    discountRate = 0.9;

int finalPrice = (int)(total * discountRate);
int discount = total - finalPrice;

sb.AppendLine($"折扣後金額: ${finalPrice}");
sb.AppendLine($"您共節省: ${discount}");

txtResult.Text = sb.ToString();
}
}
}
```

程式執行範本:

請選擇內用或外帶

☒ 內用 ☐ 外帶

請選擇飲料

☒ 珍珠奶茶 (\$50)  1杯

☒ 綠茶 (\$40)  3杯

☒ 檸檬汁 (\$60)  3杯

計算金額

【訂單明細】

用餐方式：內用

珍珠奶茶 x1 杯：\$50

綠茶 x3 杯：\$120

檸檬汁 x3 杯：\$180

原始總金額：\$350

折扣後金額：\$297

您共節省：\$53

請選擇內用或外帶

☒ 內用 ☐ 外帶

請選擇飲料

☒ 珍珠奶茶 (\$50)  6杯

☒ 綠茶 (\$40)  2杯

☒ 檸檬汁 (\$60)  10杯

計算金額

【訂單明細】

用餐方式：內用

珍珠奶茶 x6 杯：\$300

綠茶 x2 杯：\$80

檸檬汁 x10 杯：\$600

原始總金額：\$980

折扣後金額：\$784

您共節省：\$196