```
1 using System;
 2 using System.Collections.Generic;
 3 using System.Linq;
 4 using System.Text;
 5 using System.Threading.Tasks;
 6 using System.Windows;
 7 using System.Windows.Controls;
8 using System.Windows.Data;
9 using System.Windows.Documents;
10 using System.Windows.Input;
11 using System.Windows.Media;
12 using System.Windows.Media.Animation;
13 using System.Windows.Media.Imaging;
14 using System.Windows.Navigation;
15 using System.Windows.Shapes;
16
17 namespace Motoring
18 {
19
       /// <summary>
20
       /// Interaction logic for PageSummary.xaml
21
       /// </summary>
22
       public partial class PageSummary : Page
23
24
            //-- manage the data module wide
           CostSummary summary = new CostSummary();
25
           Loan loan = new Loan();
26
27
           RunningCost runningCost = new RunningCost();
28
29
           //-- Summary value variables
           private decimal totalLoanCost = 0;
30
31
           private double totalRunningCost = 0;
32
           private double totalCostOfOwnership = 0;
33
34
           //-- Period list for combo
35
           //-- Combo items list of strings
36
37
           List<string> costPeriods = new List<string>();
38
39
           //-- Budget period variables
40
           private double periodLoan = 0;
           private double periodRunningCost = 0;
41
42
           private double periodTotalCost = 0;
43
           private string periodSelected = "Annual"; //-- Initialised toi
44
             Annual
45
46
47
           public PageSummary(CostSummary summaryPassed)
48
49
                InitializeComponent();
50
                summary = summaryPassed;
51
                loan = summary.CurrentLoan;
52
                runningCost = summary.RunningCost;
53
                costPeriods = Periods();
54
55
```

```
...ation build\Motoring Video\Motoring\PageSummary.xaml.cs
```

```
2
```

```
56
                 BudgetPeriodCombo.ItemsSource = costPeriods;
 57
 58
                 //--- Show values held
 59
                 MessageBox.Show(DataValuesSummary());
 60
                 //-- Calulate and load total costs
 61
 62
                 ShowTotalCosts();
             }
 63
 64
 65
             private void LoanPageButton_OnClick(object sender, RoutedEventArgs e)
 66
                 var pageLoan = new PageLoan();
 67
 68
                 this.NavigationService.Navigate(pageLoan);
 69
             }
70
             // -- Combo box data population
             List<string> Periods()
 71
 72
             {
 73
                 List<string> myList = new List<string>
 74
                 {
 75
                     "Annual",
                     "Monthly",
 76
                     "Weekly"
 77
 78
                 };
 79
 80
                 return myList;
             }
 81
 82
             private void BudgetPeriodCombo_OnLoaded(object sender, RoutedEventArgs →
 83
                e)
 84
 85
                 var combo = sender as ComboBox;
 86
                 combo.ItemsSource = costPeriods;
                 combo.SelectedIndex = 0;
 87
 88
             }
 89
             private void BudgetPeriodCombo_OnSelectionChanged(object sender,
 90
               SelectionChangedEventArgs e)
 91
 92
                 var selectedComboItem = sender as ComboBox;
 93
                 periodSelected = selectedComboItem.SelectedItem as string;
 94
 95
                 //-- work out periodLoan value
 96
                 switch (periodSelected)
 97
                 {
                     case "Annual":
 98
                         periodLoan = Convert.ToDouble
 99
                         (LoanCalculator.LoanAnnualPayment(loan));
100
                         break;
101
                     case "Monthly":
102
                         periodLoan = Convert.ToDouble
                         (LoanCalculator.LoanMonthlyPayment(loan));
103
                         break;
104
                     case "Weekly":
105
                         periodLoan = Convert.ToDouble
                                                                                       P
                         (LoanCalculator.LoanWeeklyPayment(loan));
106
                         break;
```

```
...ation build\Motoring Video\Motoring\PageSummary.xaml.cs
107
108
109
                 //-- Period running costs
                 switch (periodSelected)
110
111
                 {
112
                     case "Annual":
113
                         periodRunningCost =
                         RunningCostsCalculator.TotalWeeklyRunningCost(runningCost) >
114
                         break;
115
                     case "Monthly":
                         periodRunningCost =
116
                         RunningCostsCalculator.TotalWeeklyRunningCost(runningCost) >
                          * 52 / 12;
117
                         break;
                     case "Weekly":
118
119
                         periodRunningCost =
                                                                                      P
                         Running Costs Calculator. Total Weekly Running Cost
                         (runningCost);
120
                         break;
121
                 }
122
123
                 periodTotalCost = periodLoan + periodRunningCost;
124
125
                 //-- Put values into the text blocks
126
127
                 LoanPeriodTextBlock.Text = periodLoan.ToString("C");
128
                 RunningCostPeriodTextBlock.Text = periodRunningCost.ToString("C");
129
                 //-- Total of period costs
130
131
                 TotalPeriodCostsTextBlock.Text = periodTotalCost.ToString("C");
132
             }
133
134
             private void ShowTotalCosts()
135
136
                 totalLoanCost = LoanCalculator.LoanTotalPayment(loan);
                 TotalLoanTextBlock.Text = totalLoanCost.ToString("C");
137
138
139
                 //-- Total running costs
140
                 totalRunningCost = RunningCostsCalculator.TotalWeeklyRunningCost
                   (runningCost) * 52 * loan.LoanTermYears;
141
                 TotalRunnincCostTextBlock.Text = totalRunningCost.ToString("C");
142
143
                 //-- Total Cost of ownership
144
                 double loanCost = Convert.ToDouble(totalLoanCost);
                 totalCostOfOwnership = (loanCost + totalRunningCost +
145
                   loan.CarDeposit);
146
147
                 TotalOwenershipTextBlock.Text = totalCostOfOwnership.ToString
                   ("C");
             }
148
149
150
             string DataValuesSummary()
151
                 string message = "";
152
153
```

```
...ation build\Motoring Video\Motoring\PageSummary.xaml.cs
154
                 var valuesHeld = new StringBuilder();
155
156
                 //-- Loan
157
                 valuesHeld.Append("Car price: ").Append(loan.CarPrice.ToString
                   ()).AppendLine();
158
                 valuesHeld.Append("Deposit: ").Append(loan.CarDeposit.ToString
                   ()).AppendLine();
                 valuesHeld.Append("Loan term: ").Append
159
                   (loan.LoanTermYears.ToString()).AppendLine();
160
                 valuesHeld.Append("Interest rate: ").Append(loan.LoanRate.ToString →
                   ()).AppendLine();
                 //-- Running Costs
161
                 valuesHeld.Append("Insurance cost: ").Append
162
                   (runningCost.Insurance.ToString()).AppendLine();
                 valuesHeld.Append("Insurance period: ").Append
163
                   (runningCost.InsurancePeriod).AppendLine();
164
                 valuesHeld.Append("Fuel cost: ").Append(runningCost.Fuel.ToString >
                   ()).AppendLine();
165
                 valuesHeld.Append("Fuel period: ").Append
                   (runningCost.FuelPeriod).AppendLine();
                 valuesHeld.Append("Servicing cost: ").Append
166
                                                                                     P
                   (runningCost.Servicing.ToString()).AppendLine();
                 valuesHeld.Append("Servicing period: ").Append
167
                   (runningCost.ServicingPeriod).AppendLine();
                 valuesHeld.Append("Road Tax cost: ").Append
168
                                                                                     P
                   (runningCost.RoadTax.ToString()).AppendLine();
169
                 valuesHeld.Append("Road Tax period: ").Append
                   (runningCost.RoadTaxPeriod).AppendLine();
170
                 //-- convert StringBuilder to string and return
171
172
                 message = valuesHeld.ToString();
173
174
                 return message;
175
176
            }
177
         }
178 }
179
```