Select Case block

- A decision-making structure that simplifies choosing among several actions.
- Avoids complex nested If constructs.
- If blocks make decisions based on the truth value of a condition; Select Case choices are determined by the value of an expression called a **selector**.

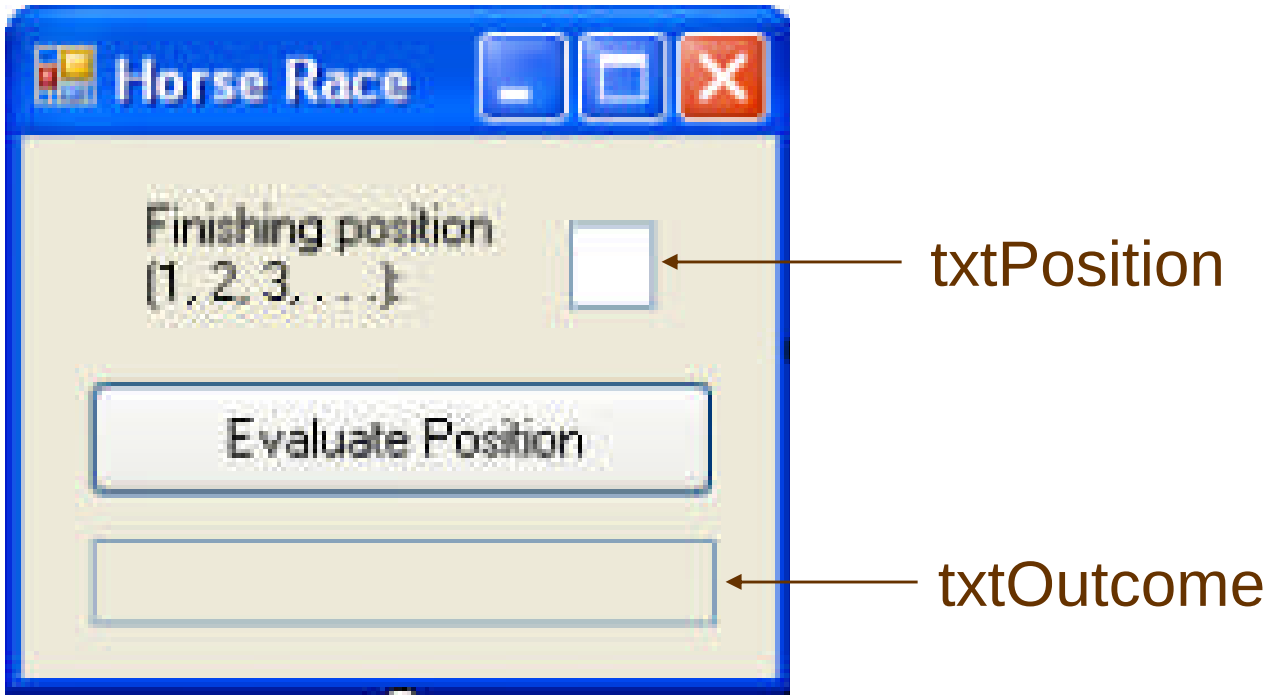
Select Case Terminology

Each of the possible actions is preceded by a clause of the form

`Case` *`valueList`*

where *valueList* itemizes the values of the **selector** for which the action should be taken.

Lab Sheet 5.6: Form



Lab Sheet 5.6: Code

```
Private Sub btnEvaluate_Click(...) _
                                    Handles btnEvaluate.Click
  Dim position As Integer = CInt(txtPosition.Text)
  Select Case position
    Case 1
      txtOutcome.Text = "Win"
    Case 2
      txtOutcome.Text = "Place"
    Case 3
      txtOutcome.Text = "Show"
    Case 4, 5
      txtOutcome.Text = "You almost placed in the money."
    Case Else
      txtBox.Text = "Out of the money."
  End Select
End Sub
```

Selector

Value Lists

Lab Sheet 5.6: Output

Lab Sheet 5.6: Code

```
Private Sub btnEvaluate_Click(...) _
                          Handles btnEvaluate.Click
  Dim position As Integer = CInt(txtPosition.Text)
  Select Case position
    Case 1 To 3
      txtOutcome.Text = "In the money. Congratulations"
    Case Is >= 4
      txtOutcome.Text = "Not in the money."
  End Select
End Sub
```

Lab Sheet 5.6: Output

Select Case Syntax

The general form of the Select Case block is

```
Select Case selector
   Case valueList1
      action1
   Case valueList2
      action2
   Case Else
      action of last resort
End Select
```

Rules for Select Case

- Case Else (and its action) is optional
- Each value list contains one or more of the following types of items separated by commas:

1. a literal;
2. a variable;
3. an expression;
4. an inequality sign preceded by Is and followed by a literal, variable, or expression;
5. a range expressed in the form *a* To *b*, where *a* and *b* are literals, variables, or expressions.

Flowchart for Select Case