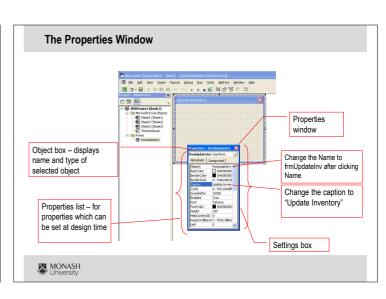
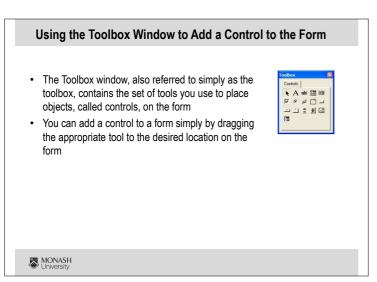
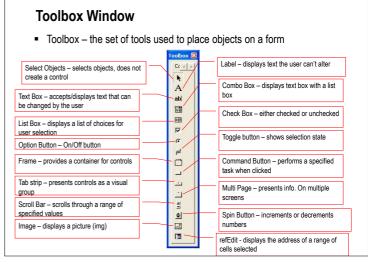
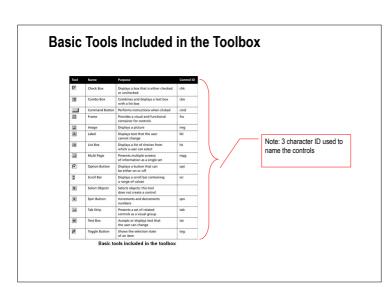


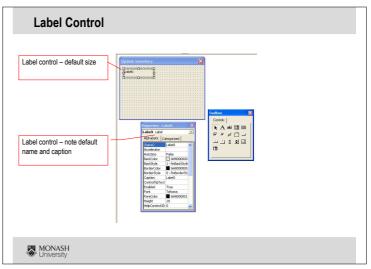
# Each form in a project must have a unique name The rules for naming forms are the same as the rules for naming variables The three-character ID used in form names is frm

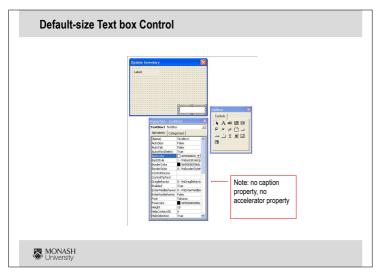


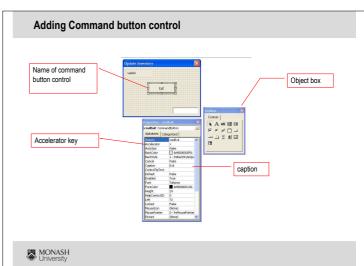












### Displaying and Removing a User Form

You use the form's **Show method** to bring the custom dialog box into the computer's memory and then display it on the screen, and you use the Unload statement to remove the dialog box from both the screen and memory

### The workbook open event:

Private Sub Workbook\_Open() frmUpdateInv.Show End Sub

### The workbook close event:

Private Sub Workbook\_BeforeClose(Cancel As Boolean) Unload frmUpdateInv End Sub

See Computer Inventory complete.xls in the Resources folder (select ThisWorkbook)

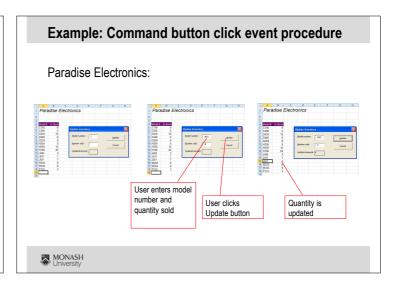
MONASH University

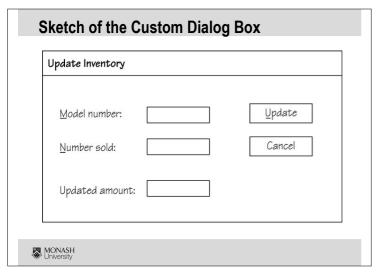
### Coding a User Form

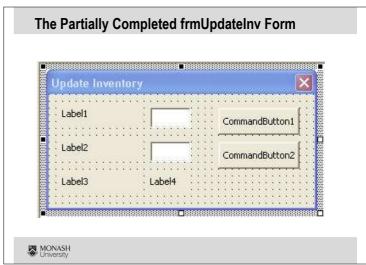
- Actions performed by the user—such as clicking, double-clicking, and scrolling-are called events
- You tell an object how to respond to an event by writing an event procedure
- Event procedures are blocks of instructions that perform a task
- Event procedures run in response to an event rather than in response to running a macro
- Every form has its own set of event procedures (e.g. Activate, Click, Double Click)
- Every object on a form also has its own set of event procedures (e.g. Click, Double Click....)



### **Example: Updating the Inventory Worksheet** This exercise involves creating a macro that uses a custom dialog box to update the inventory amounts (by subtracting the numbers sold from the number in stock) Paradise Electronics MONASH University







### **Setting the Name Property**

- The form and any controls that will be either coded or referred to in code should have their default name changed to a more meaningful one
- The form's name has been changed from UserForm1 to frmUpdateInv; you now need to change the appropriate control names
- You will not need to change the names of the three identifying labels (Label1, Label2, and Label3), because those controls will not be coded or referred to in code



### Controls Included in the Update Inventory Dialog

Update (newmbry

Lobel: Connewth.total

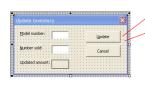
Lobel: Connewth.total

Lobel: Connewth.total

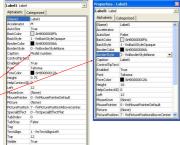
Default Name	Status	New Name
CommandButton1	Coded	cmdUpdate
CommandButton2	Coded	cmdCancel
Label1	Not coded or referred to in code	
Label2	Not coded or referred to in code	
Label3	Not coded or referred to in code	
Label4	Referred to in code	IbIUpdated
TextBox1	Referred to in code	txtModel
TextBox2	Referred to in code	txtNumSold

### **Setting the Caption Property**

- Label controls and command buttons have a Caption property that controls the text appearing inside the control
- When a label or command button is added to the form, its default name is assigned to the Caption property. These require updating.





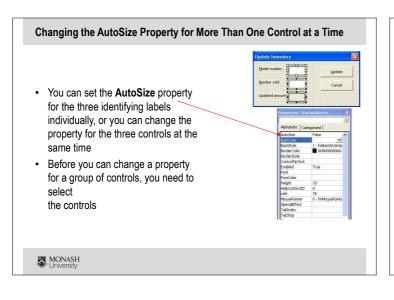


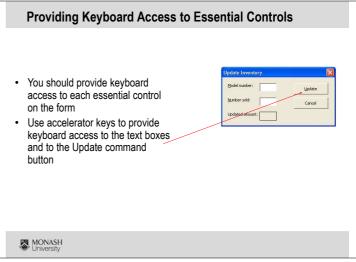
### Setting the BorderStyle Property

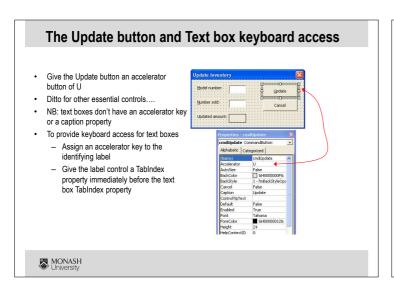
- Many objects have a BorderStyle property that determines the style of the object's border
- Label controls, for example, have a BorderStyle property that can be set to either 0 (fmBorderStyleNone) or 1 (fmBorderStyleSingle)
- The 0 fmBorderStyleNone setting displays
  the label control without a border, while the
  1 (fmBorderStyleSingle) setting displays the
  label control with a thin line around its
  border
- Many controls also have an AutoSize property, which does just what its name implies

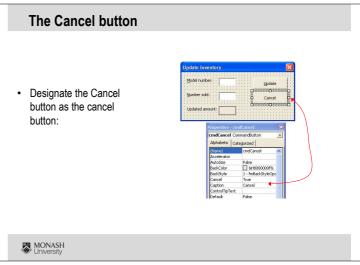


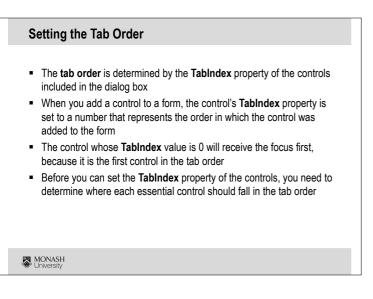


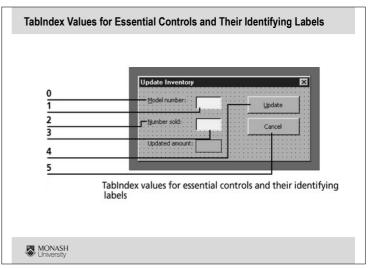


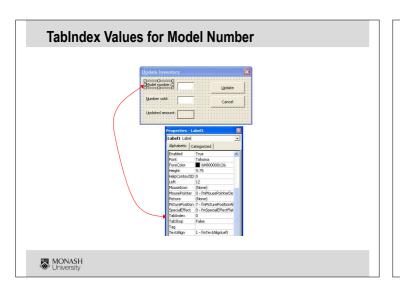






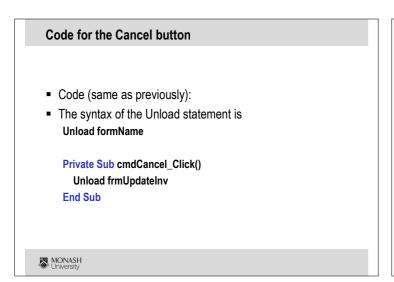


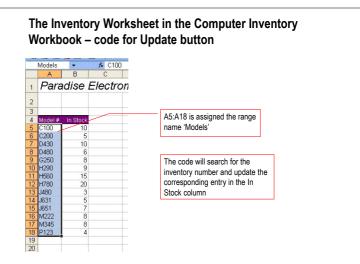


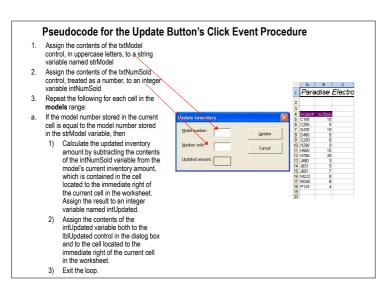


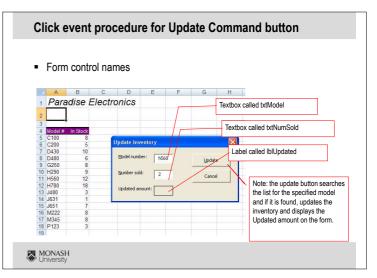
### Coding the Controls in the Update Inventory Dialog Box The first control to code is the Cancel button, which should remove the form from both the screen and the computer's memory when the user selects the button The next control to code is the Update command button, which the user can select either by clicking it or by pressing the Enter key when the button has the focus

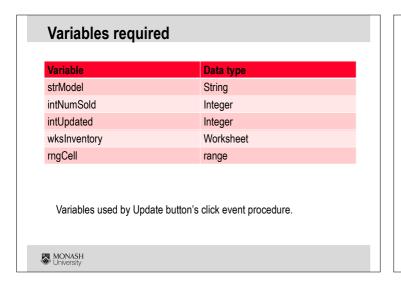
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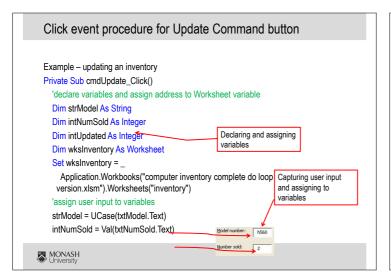


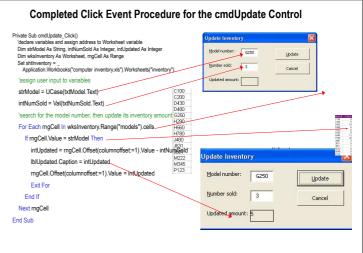


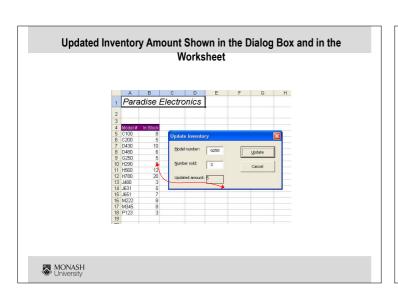


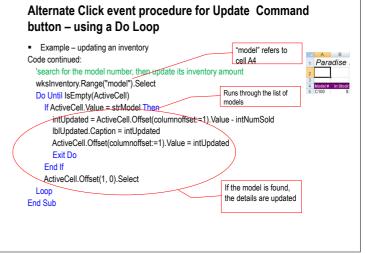












### **Summary**

- To create a user form or custom dialog box:
- Add a form to the project, then add controls to the form:
  - Click Insert on the menu bar, and then click UserForm
  - Align the controls wherever possible to minimize the number of different margins on the form
- To follow the Windows standards for controls:
  - Use a label control to display text that you don't want the user to modify
  - Use a text box control to provide an area in the dialog box where data can be entered
  - Use a command button control to process one or more instructions as soon as the button is clicked



### Summary

- Position the command button either at the bottom or on the right side of the dialog box
- Group related command buttons together by positioning them close to each other in the dialog box
- Provide keyboard access to the essential controls in the dialog box using accelerator keys
- To select an appropriate accelerator key for a control:
  - Use the first letter of the control's caption, unless another letter provides a more meaningful association



### Summary

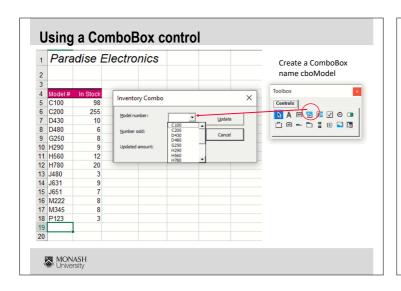
- To specify a command button as the default button:
  - Set the command button's **Default** property to **True**
- To specify a command button as the **cancel** button:
  - Set the command button's Cancel property to True
- Set an appropriate tab order
- To change the properties of an object:
  - Use the Properties window



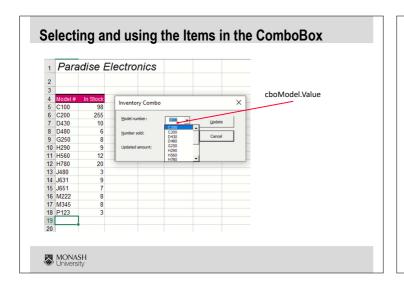
### Summary

- To have a procedure display a custom dialog box on the screen:
  - Use the Show method, whose syntax is: formName.Show
- To have a procedure remove a form from both the screen and the computer's memory:
  - $-\,$  Use the Unload statement, whose syntax is  ${\bf Unload}\,\,{\bf formName}$
- To have an object respond to an event in a particular way:
  - Enter VBA instructions in the appropriate event procedure for the object





## Private Sub UserForm\_Activate() Dim wksInvCombo As Worksheet Set wksInvCombo = Application.Workbooks("Computer Inventory complete.xlsm").Worksheets("Combo") wksInvCombo.Activate wksInvCombo.Range("A5").Select Do Until IsEmpty(ActiveCell) 'loop thru the table list cboModel.AddItem ActiveCell.Value ActiveCell.Offset(1, 0).Select Loop End Sub



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