

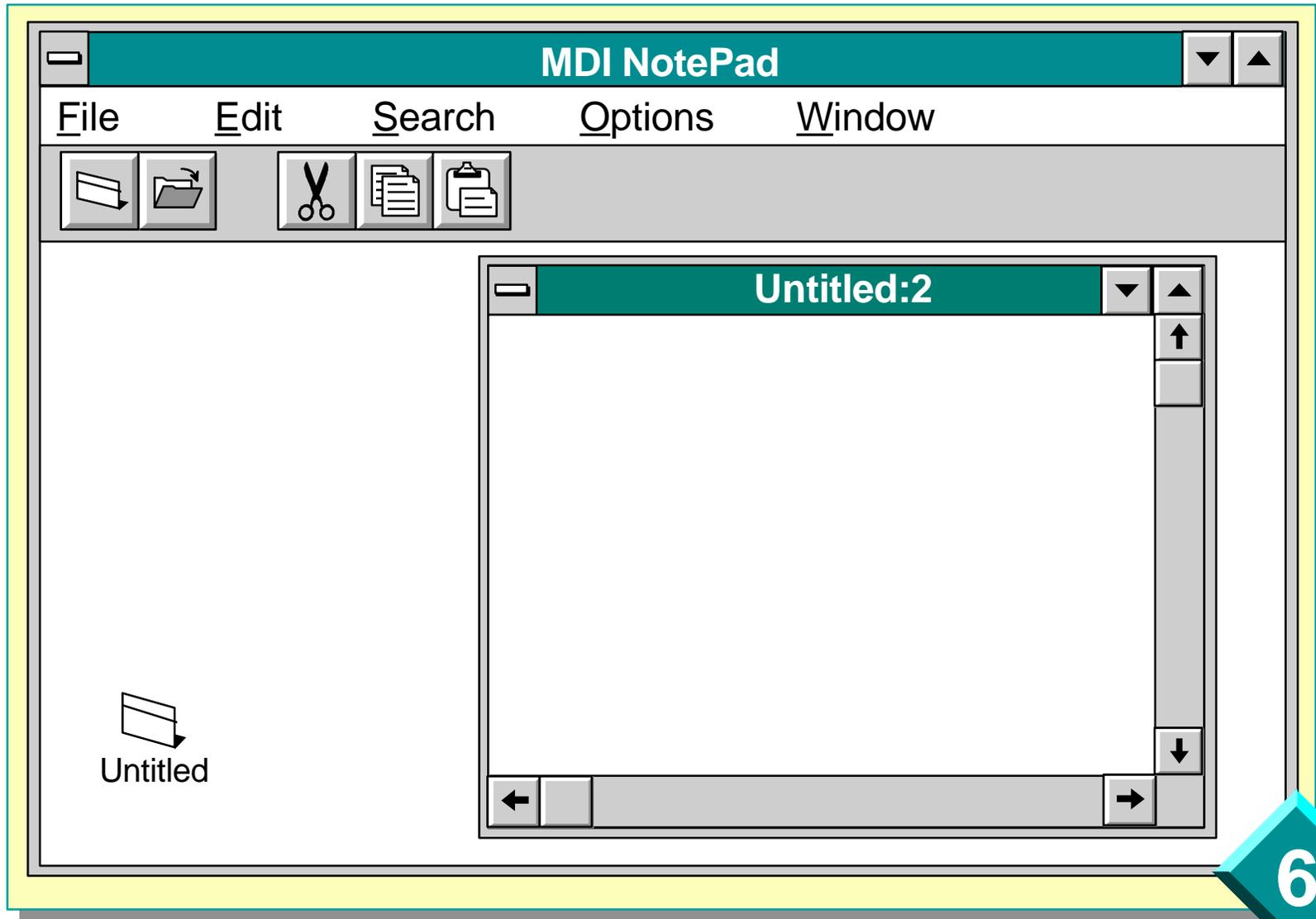
Multiple Document Interface (MDI)

7

◆ Overview

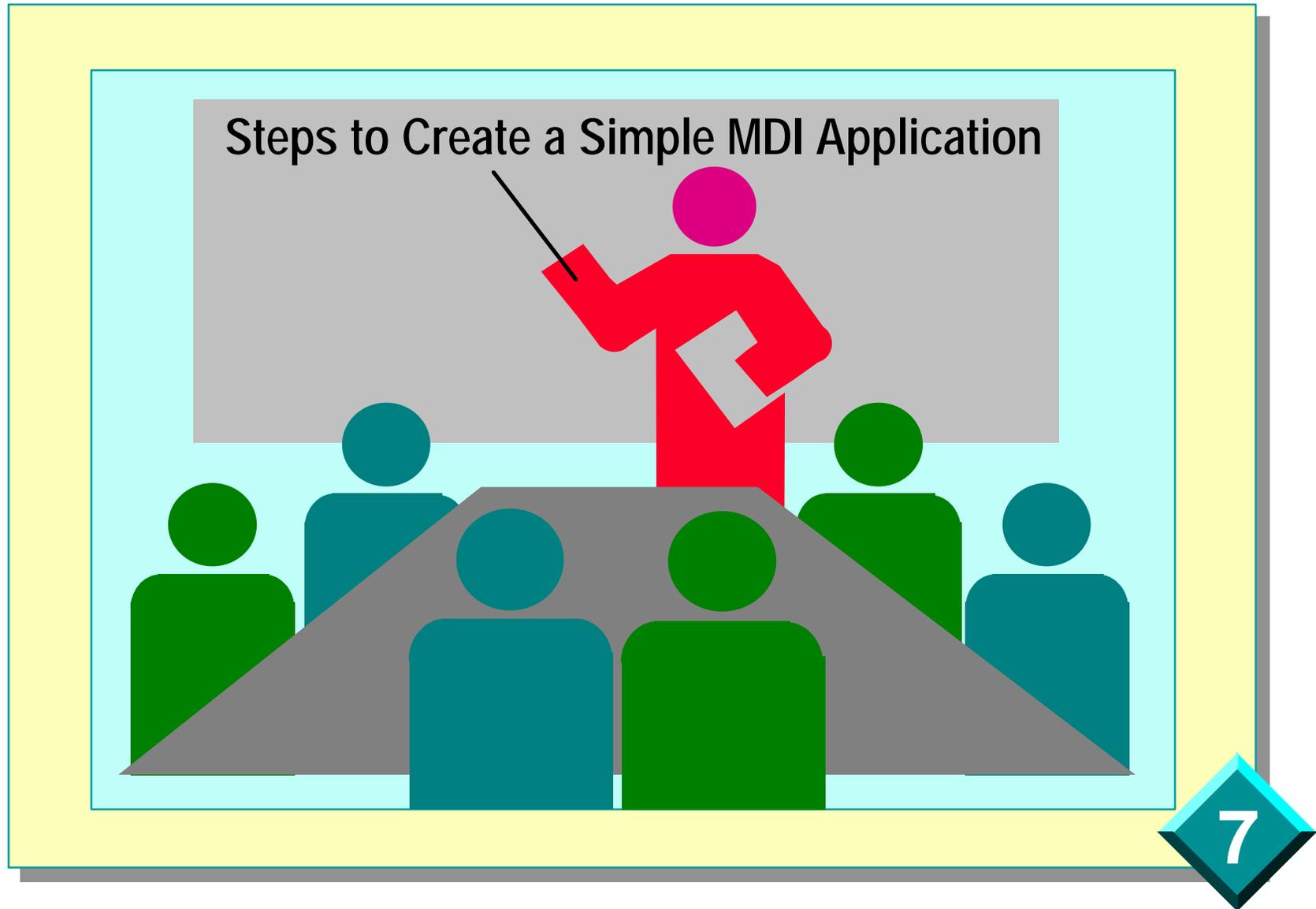
- What Is MDI?
- Creating an MDI Application
- Loading MDI Child Forms
- Menus in an MDI Application
- Forms Collection
- Creating a Toolbar
- The QueryUnload Event

What Is MDI?

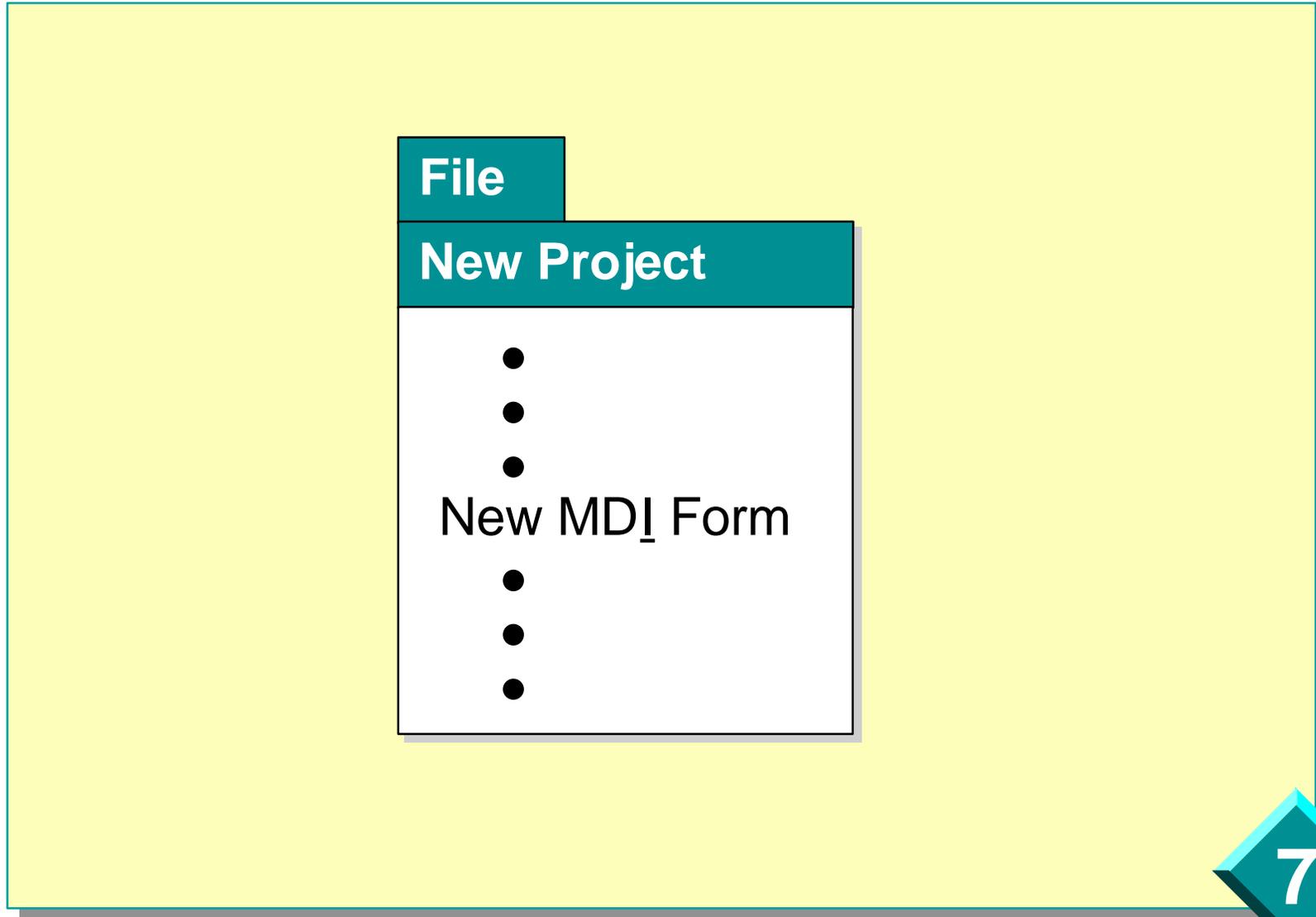


6

Creating an MDI Application—Walkthrough



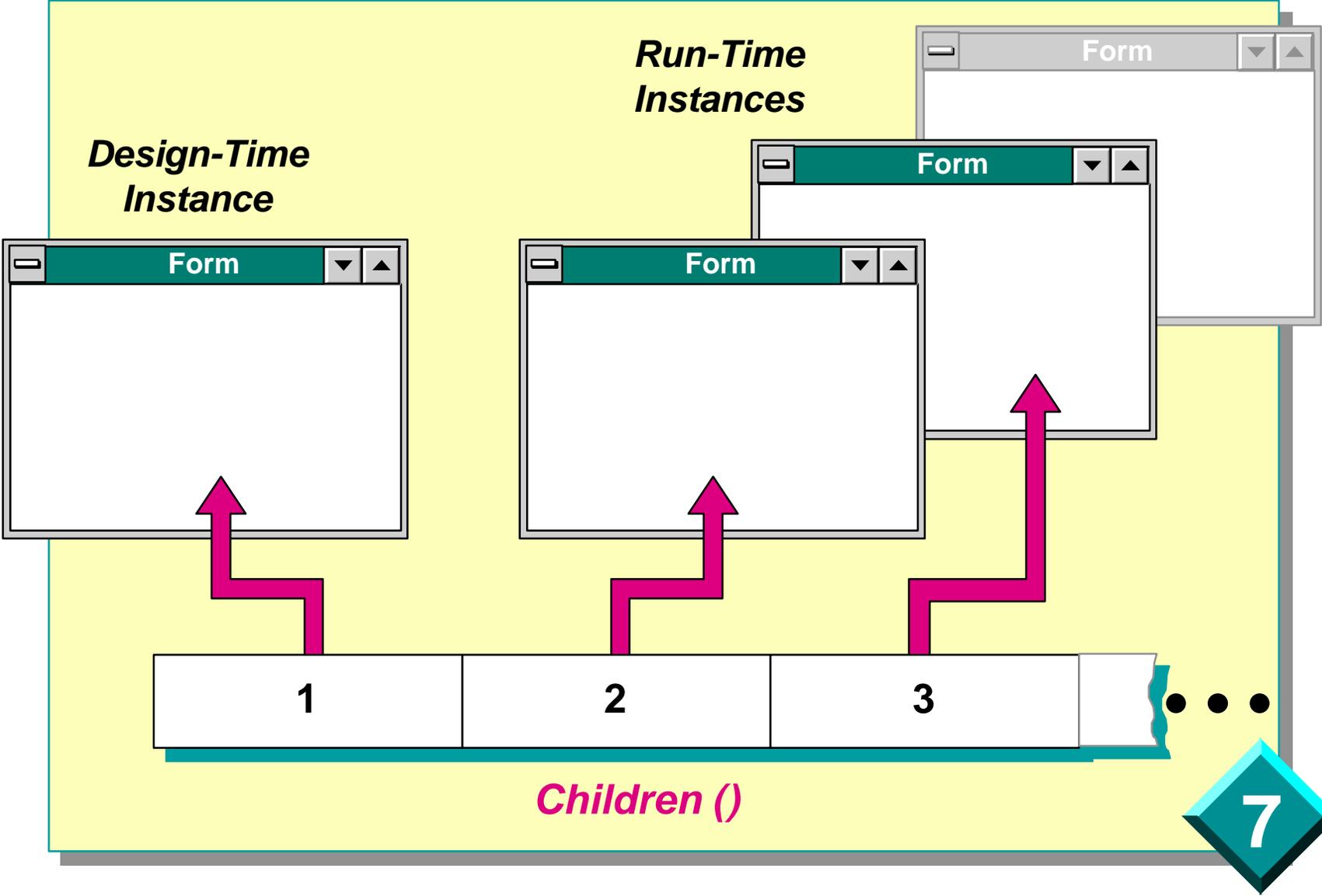
Creating an MDI Application



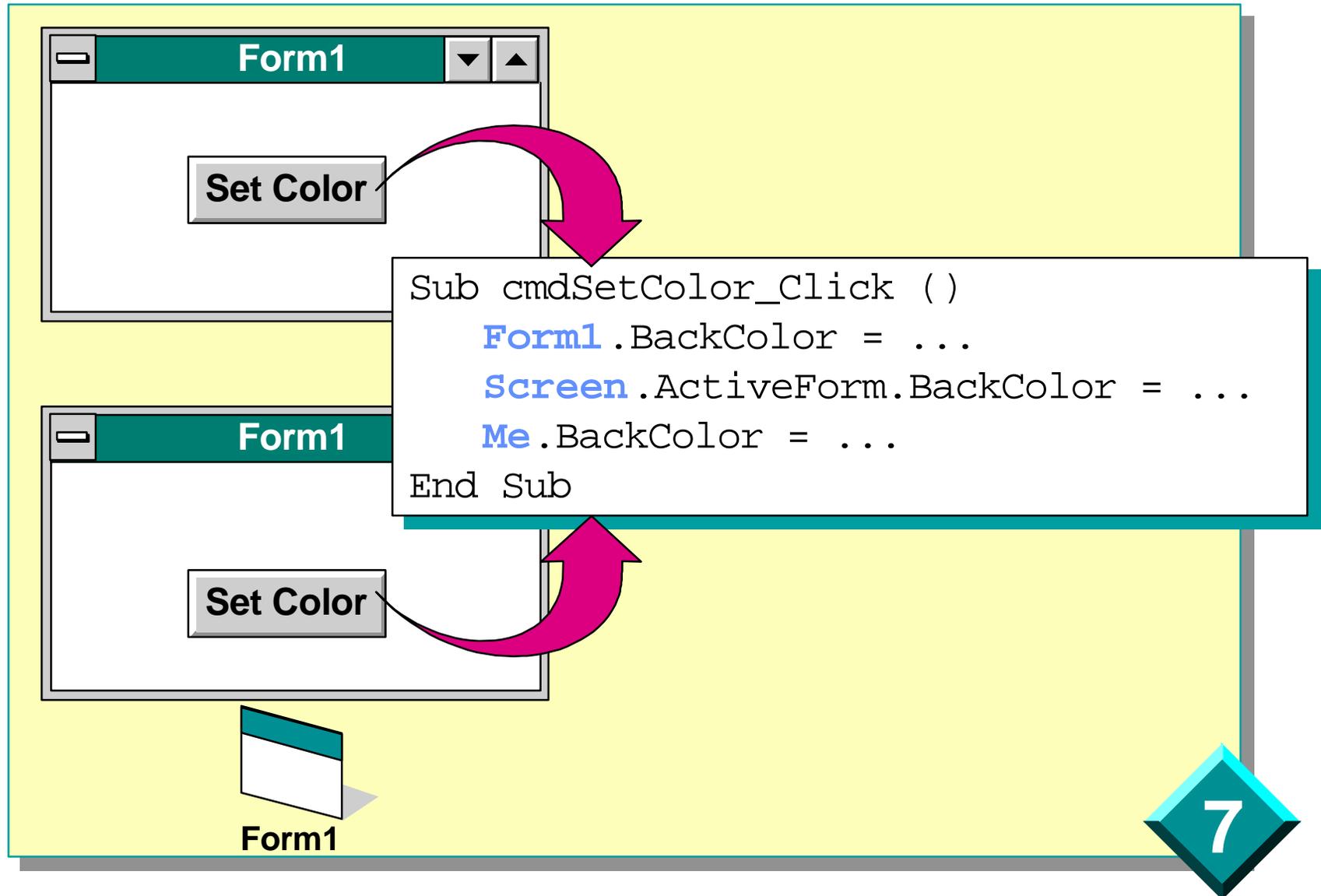
Multiple Instances of a Single Form Type

- An MDI Child Form Is a New Type
 - A *class* in object-oriented terms
- Each New MDI Child Is an *Instance* of the New Type
 - An *object* in object-oriented terms
- MDI Child Created at Design Time Is Both a Class “Template” and One Object of That Class
- To Create Additional New *Objects* of The *Class* at Run Time, Use the Keyword *New*

Creating an Object Variable Array to Refer to Forms

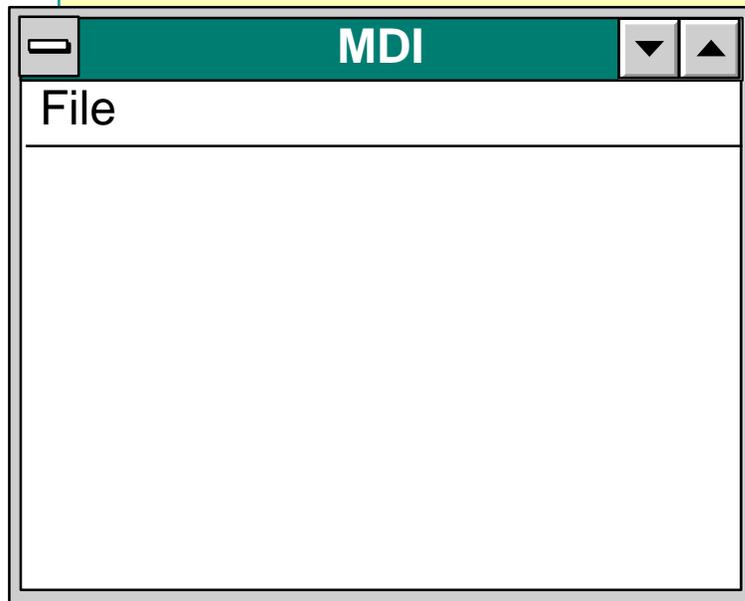


The **Me** Keyword

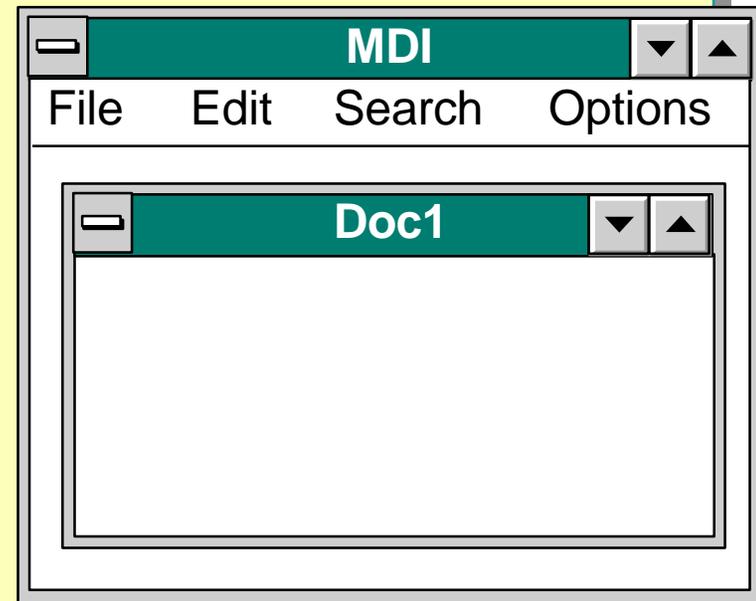


Menus in MDI Applications

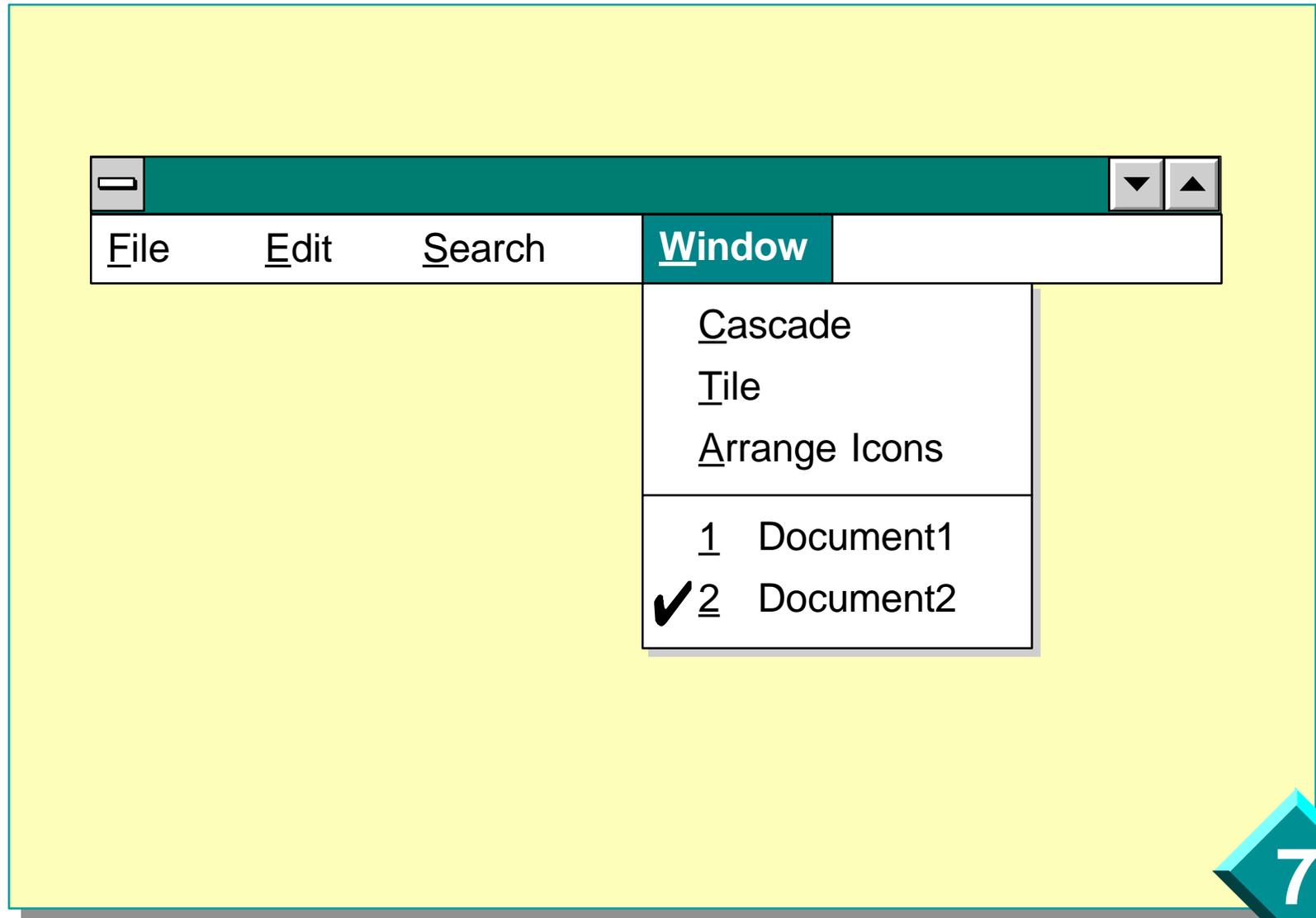
**MDI Parent Form with
No Child Form Loaded**



**MDI Parent Form
with Child Form Loaded**



Creating a Window Menu



Forms Collection

- `Forms(i)` Is Object Variable Array - Element/Form
- `Forms.Count` - Property of Forms Collection
- Use Forms Collection to Iterate Through Forms
- Check `typeof Object is Class` for Each Form

Creating a Toolbar

In Child Form:

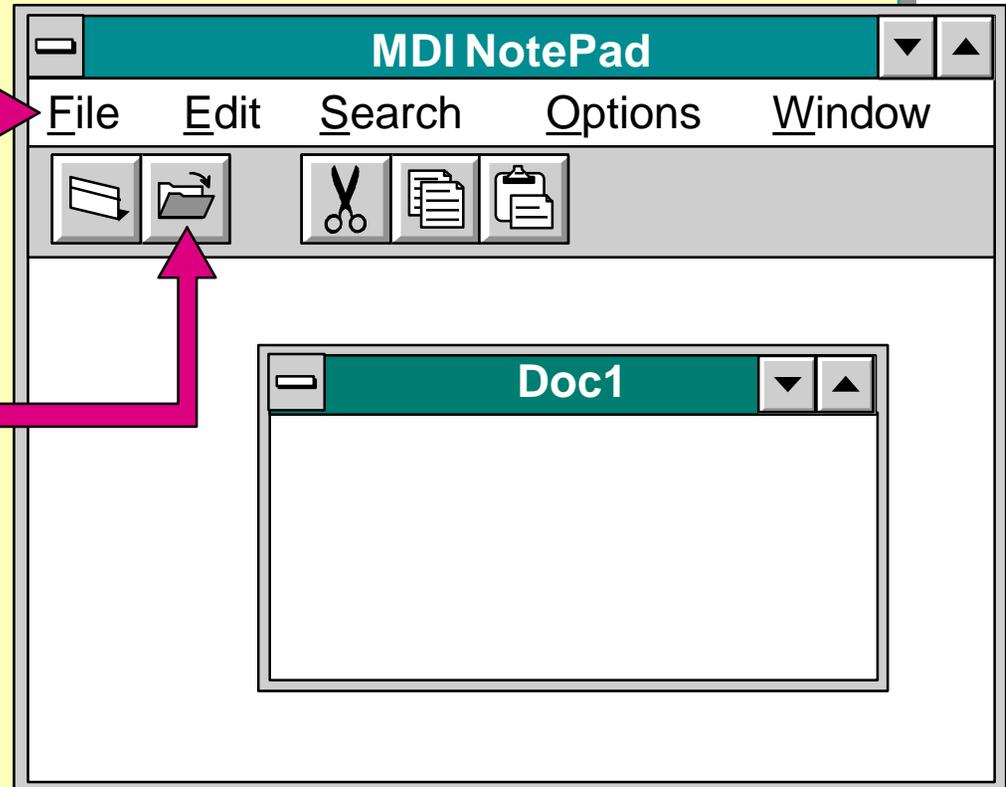
```
Sub mnuFileOpen_Click  
    CreateNewBoy  
End Sub
```

In Parent Form:

```
Sub Image2_Click  
    CreateNewBoy  
End Sub
```

In MODULE1.BAS:

```
Sub CreateNewBoy ()  
    :  
End Sub
```



Coding the Toolbar

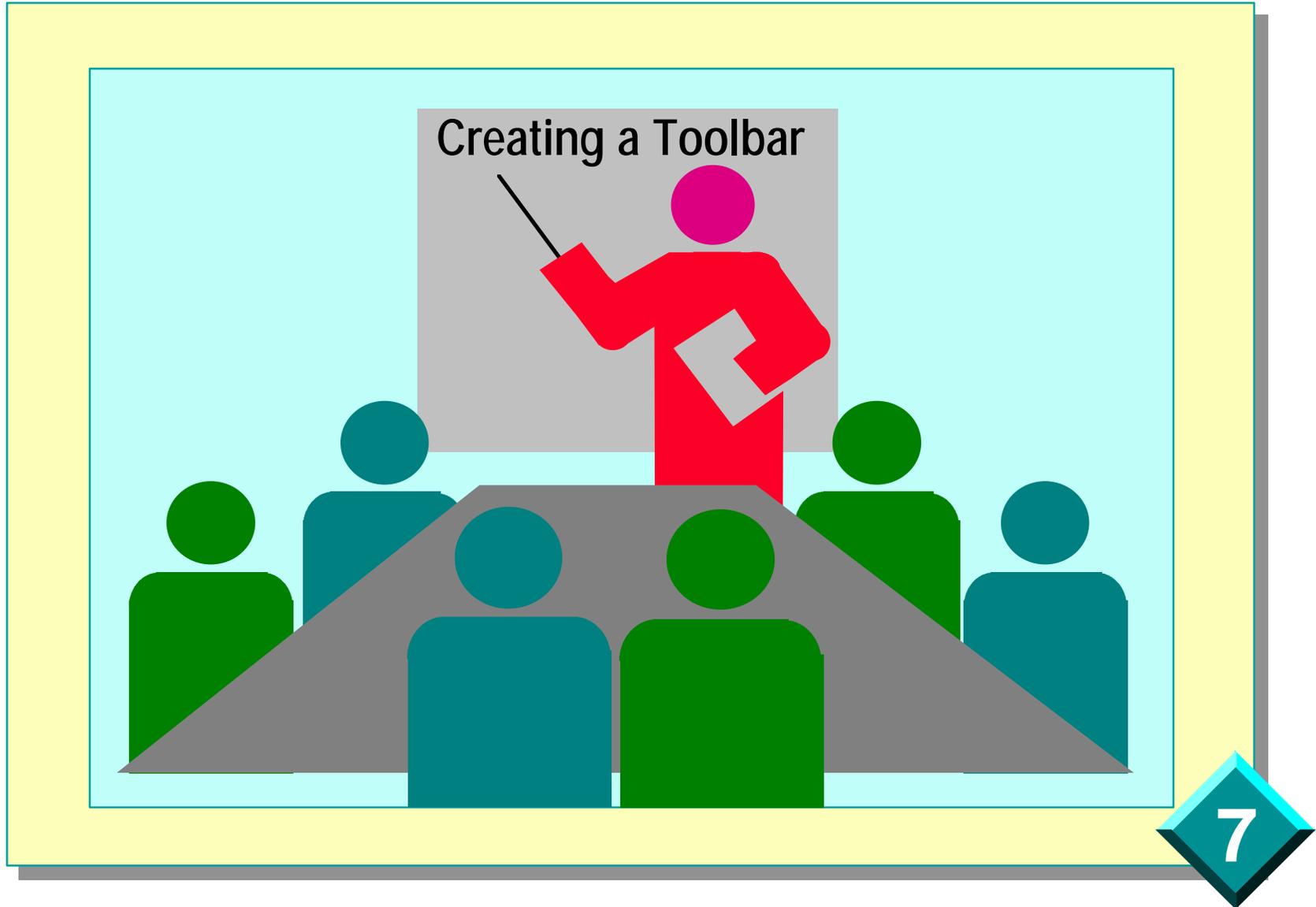
■ Problems

- Toolbar is on the parent form
- Cannot invoke child form's procedures
- Cannot access child form's variables

■ Solutions

- Place code for child form's procedures in a module
- Create parallel global arrays for "form-level" variables

Creating a Toolbar—Walkthrough



QueryUnload with MDI Forms

- **If Parent Form Is Unloaded:**
 - QueryUnload event occurs on all child forms
 - Unload event occurs on all child forms

Summary

- What Is MDI?
- Creating an MDI Application
- Loading MDI Child Forms
- Menus in an MDI Application
- Forms Collection
- Creating a Toolbar
- The QueryUnload Event