

Module 6: Multiple Document Interface (MDI)

6

Overview

What Is MDI?

Creating an MDI Application

Loading MDI Child Forms

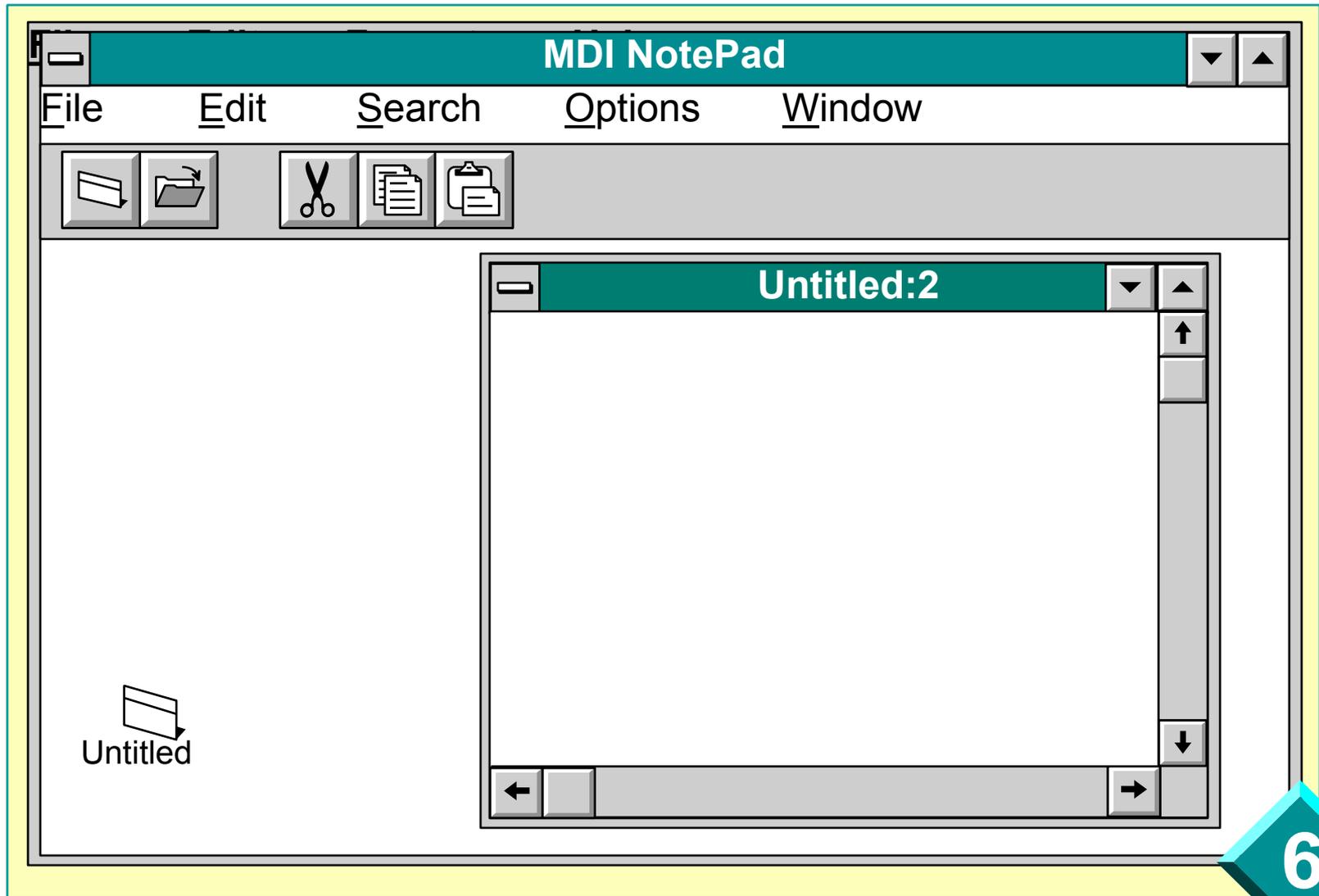
Menus in an MDI Application

Forms Collection

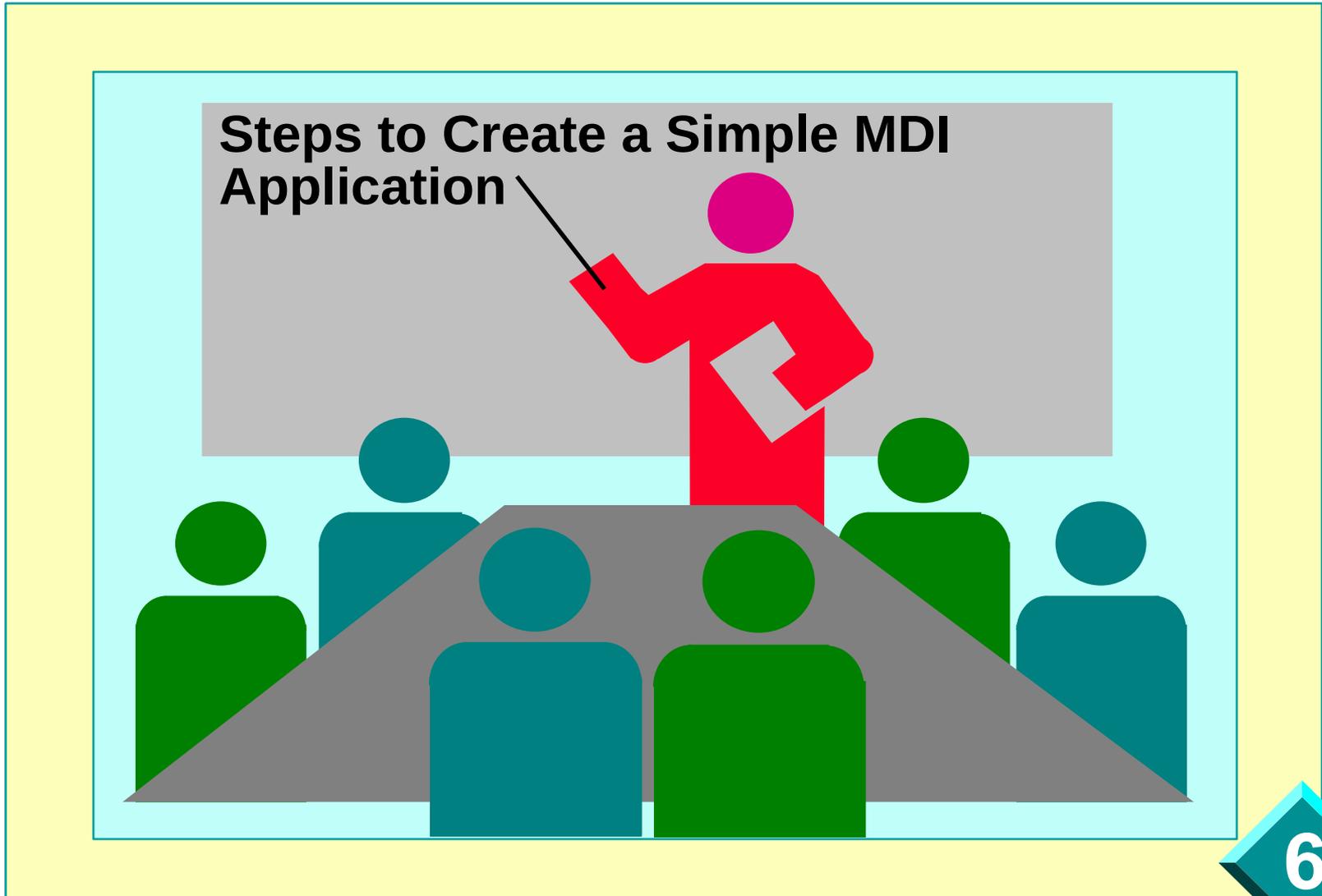
Creating a Toolbar

The QueryUnload Event

What Is MDI?



Creating an MDI Application — Walkthrough



Creating an MDI Application

File

New Project

New MDI Form



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

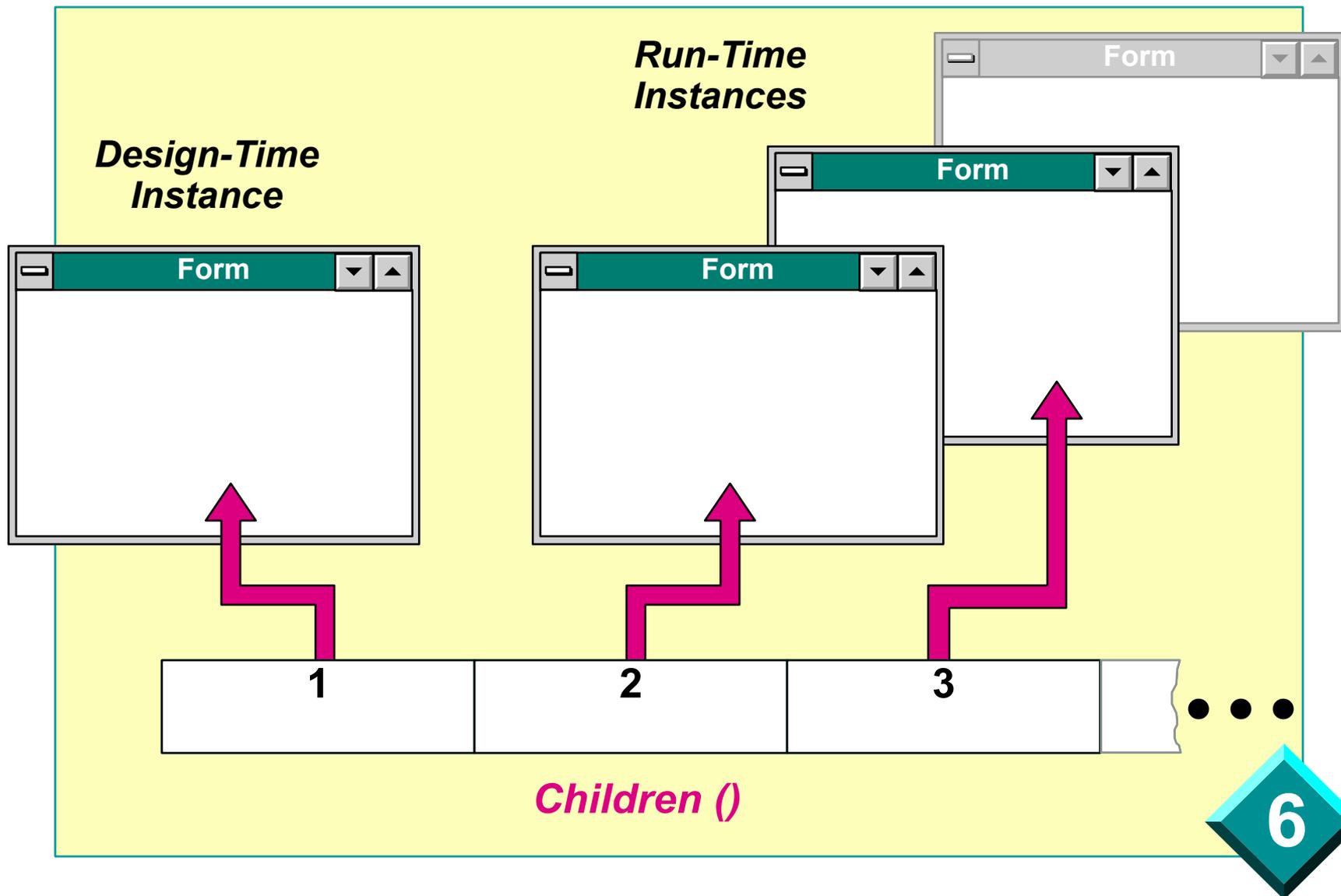
An *object* in object-oriented terms

MDI Child Created at Design Time Is Both a Class

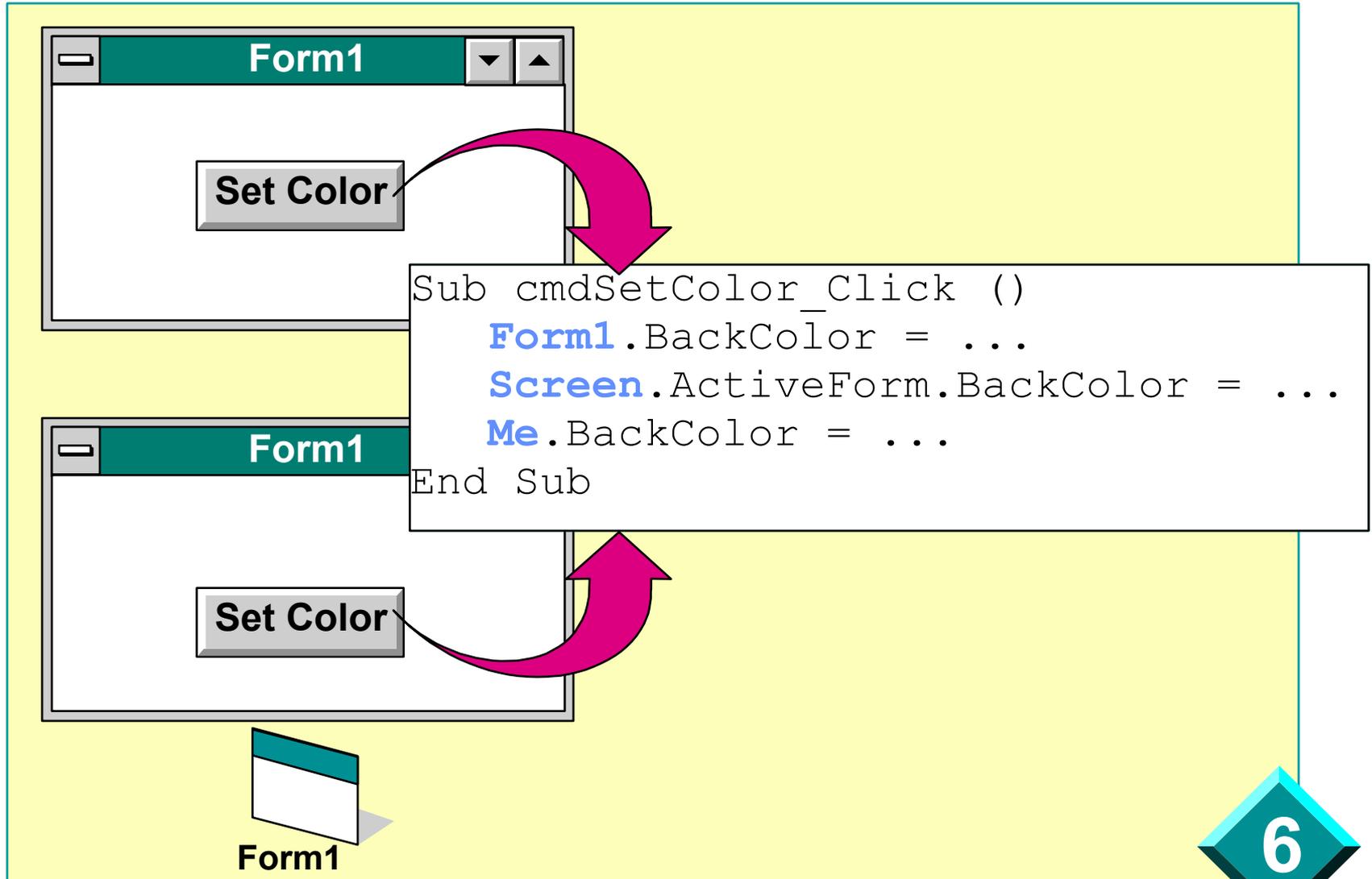
“Template” and One Object of That Class

To Create Additional New **Objects** of The **Class** at Run Time, Use the Keyword **New**

Creating an Object Variable Array to Refer to Forms

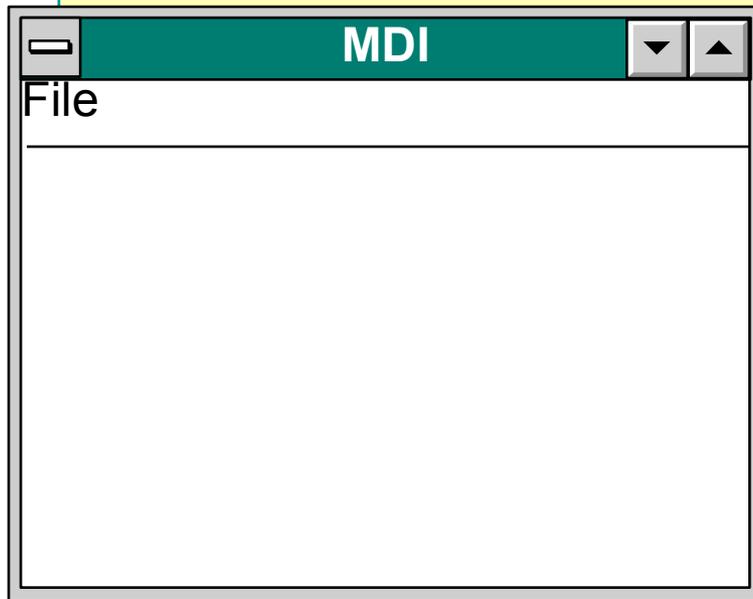


The **Me** Keyword

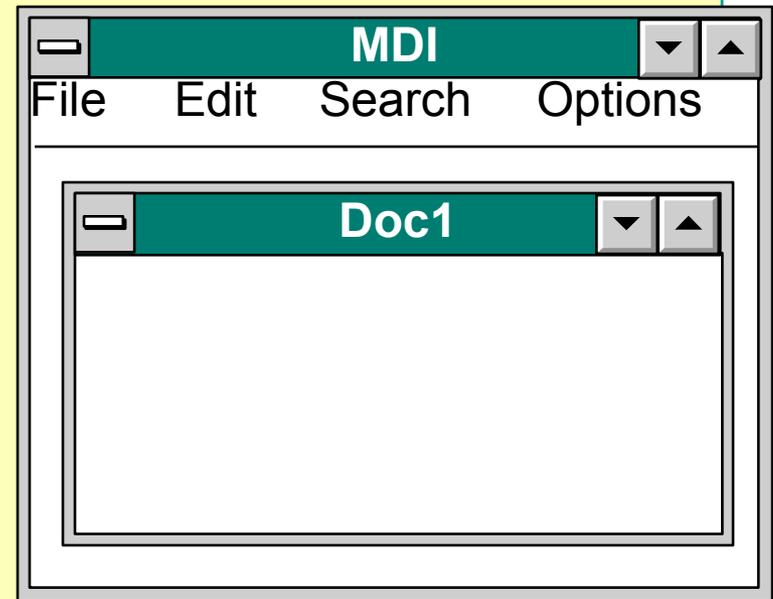


Menus in MDI Applications

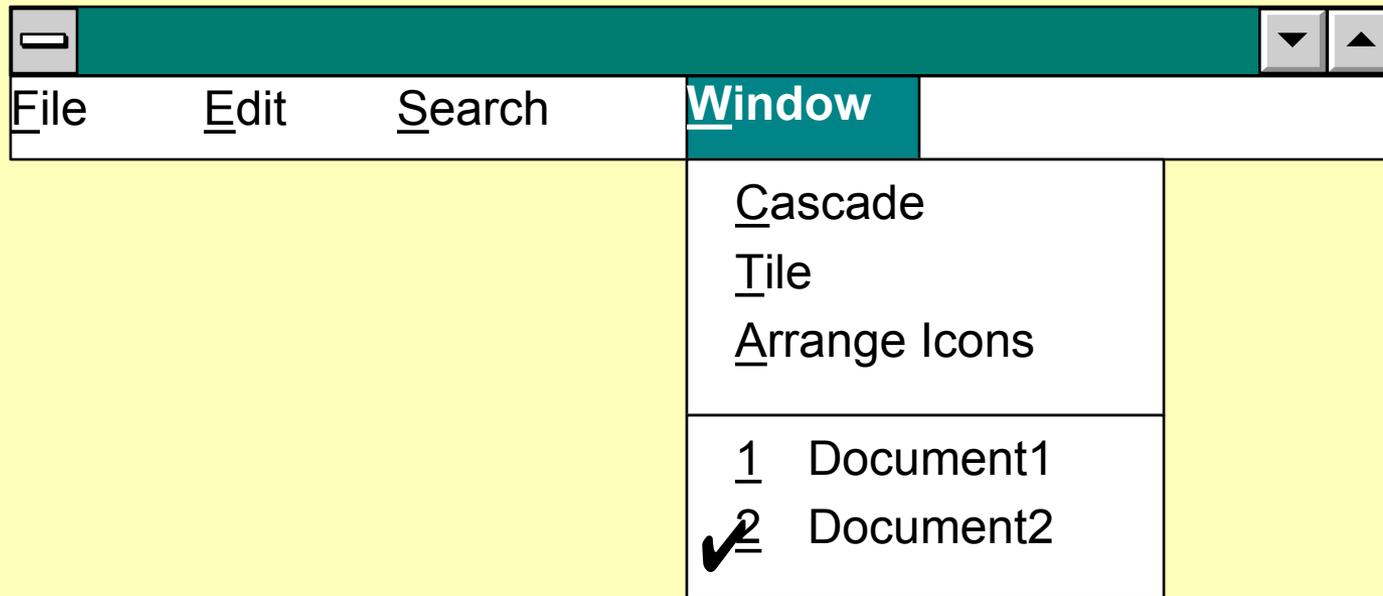
**MDI Parent Form with
No Child Form Loaded**



**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:

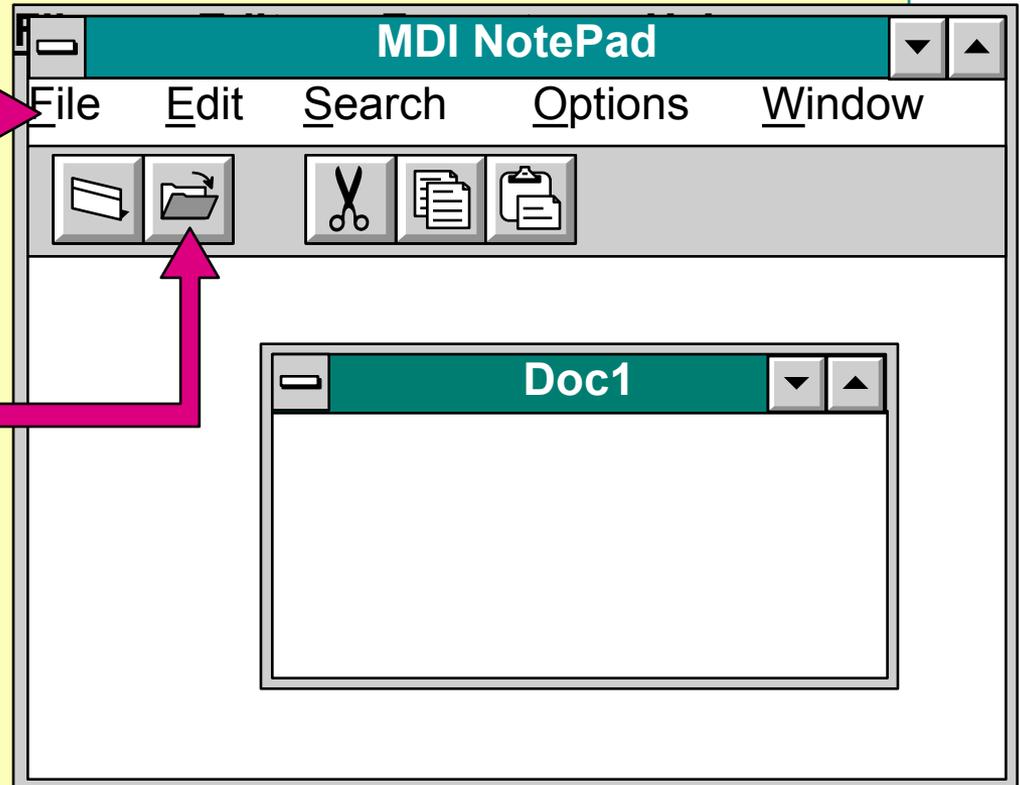
```
Sub mnuFileOpen_Click  
    CreateNewBoy  
End Sub
```

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

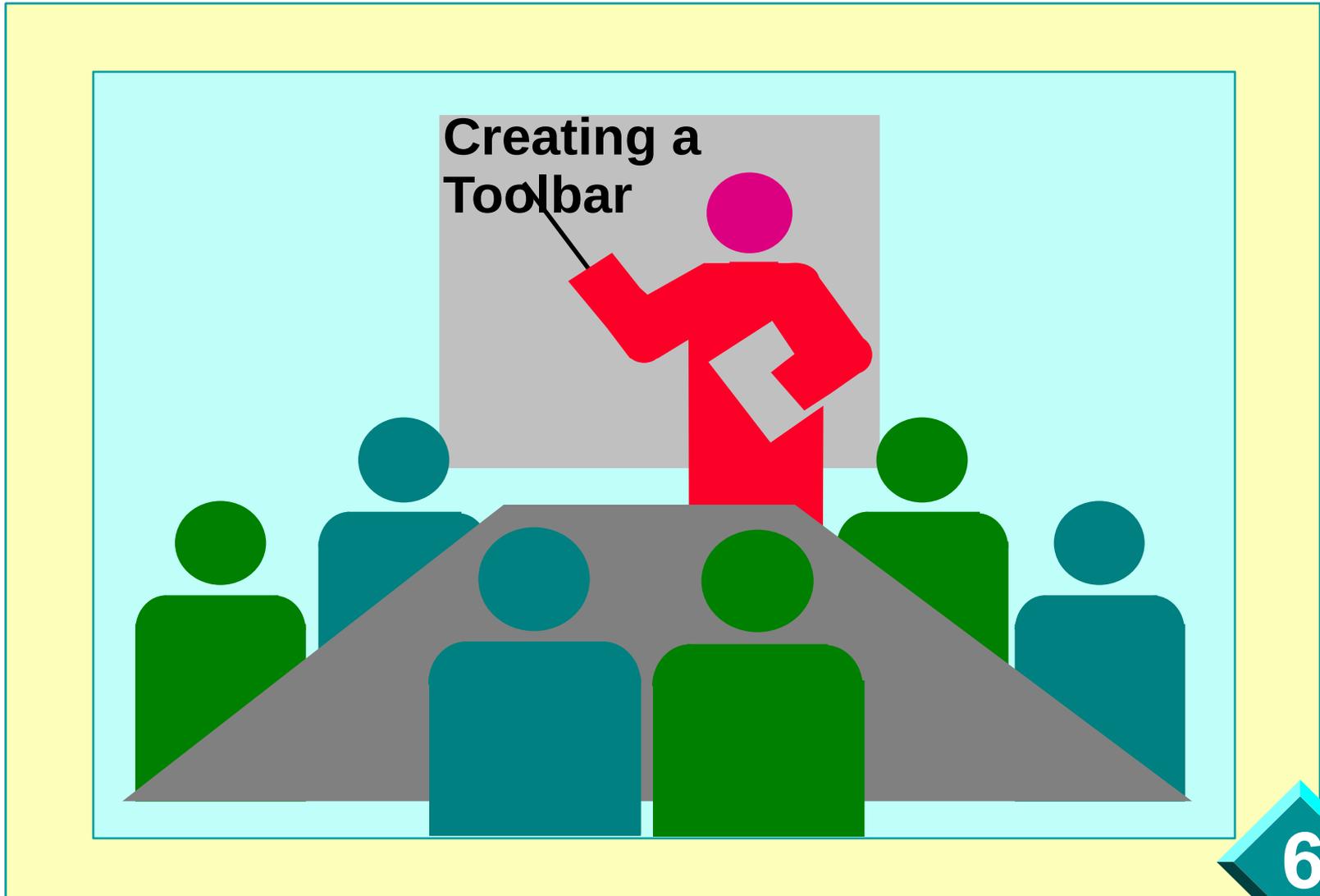
Cannot access child form's variables

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

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The QueryUnload Event