

# **Module 6: Multiple Document Interface (MDI)**

# Overview

**What Is MDI?**

**Creating an MDI Application**

**Loading MDI Child Forms**

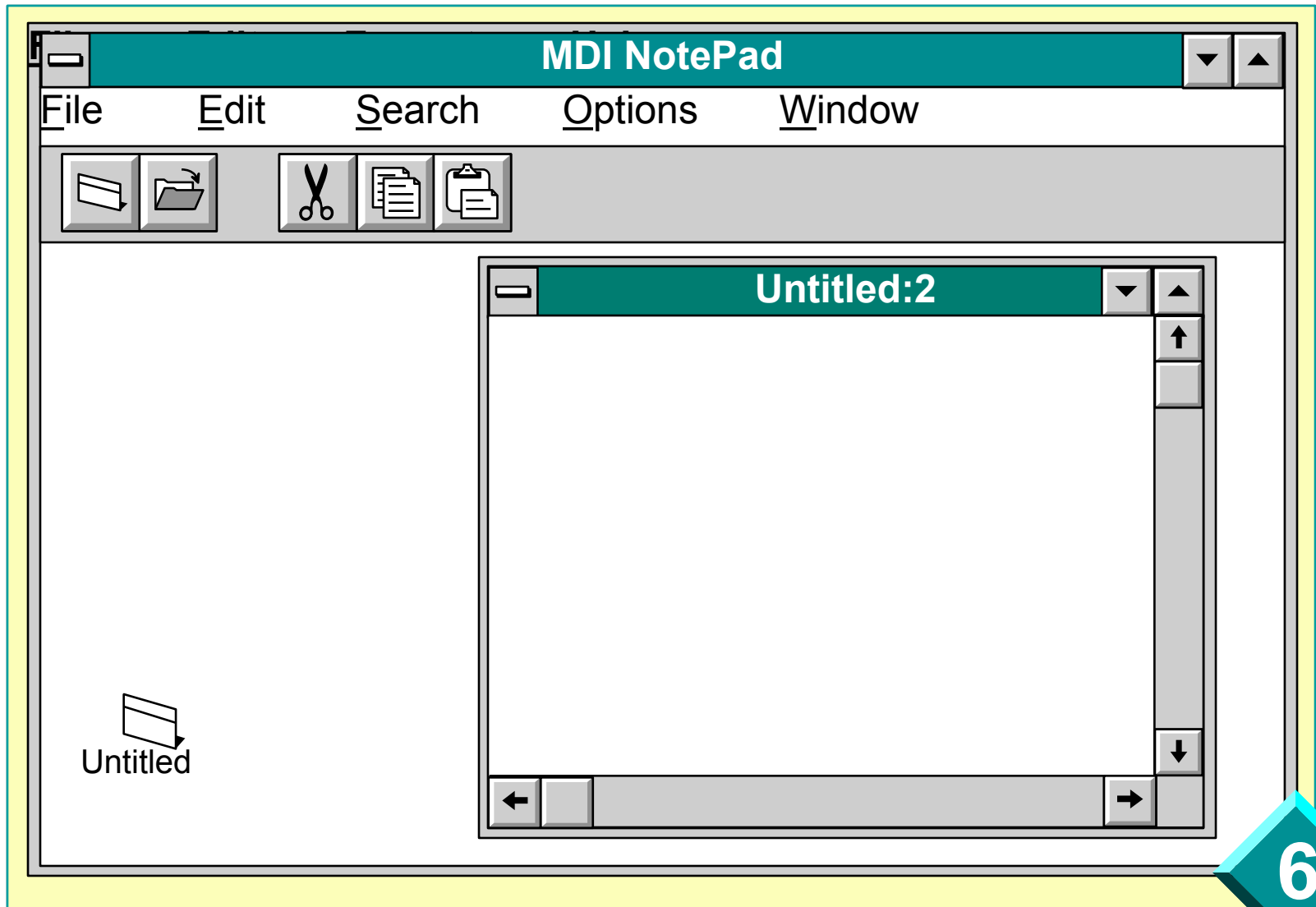
**Menus in an MDI Application**

**Forms Collection**

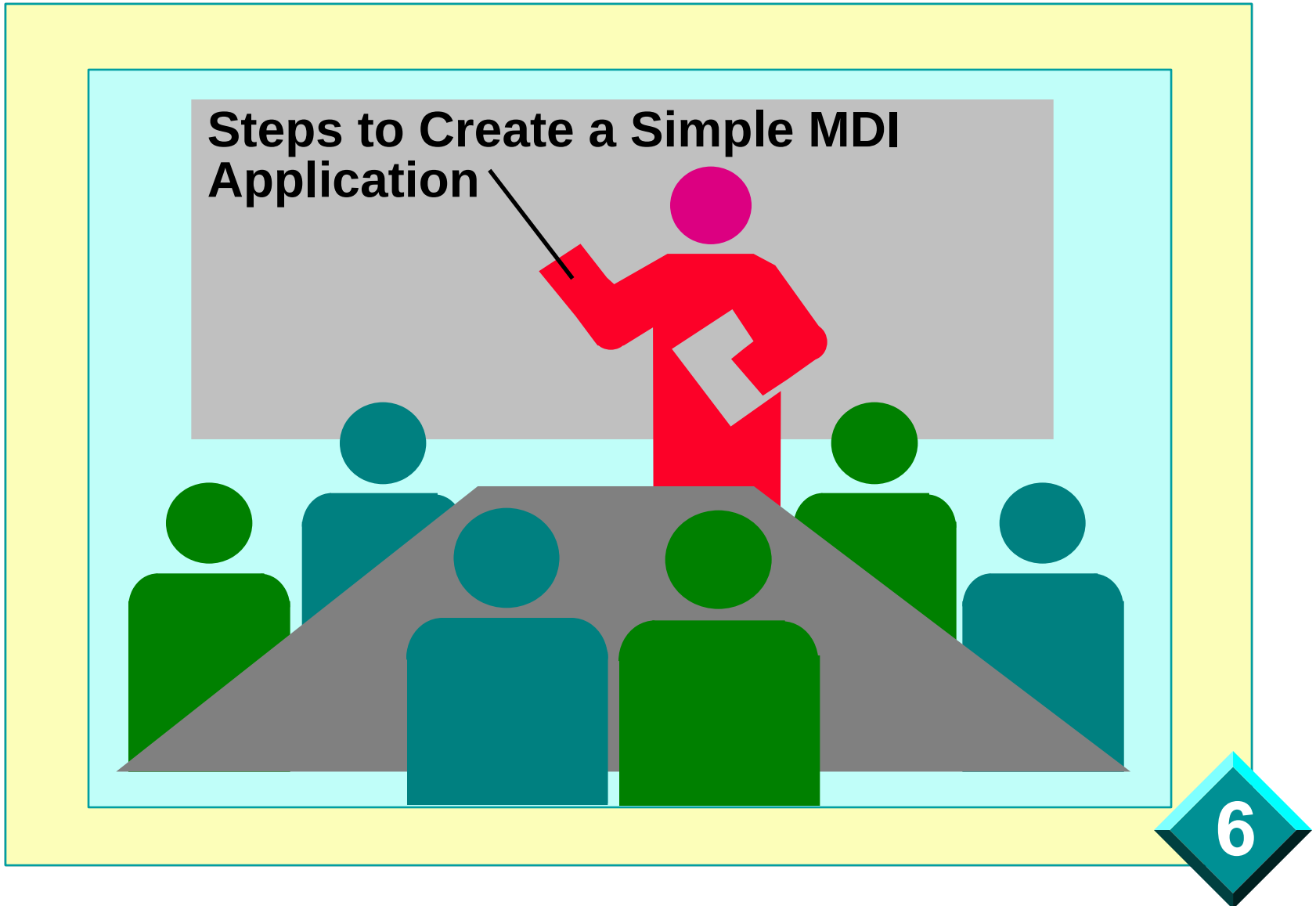
**Creating a Toolbar**

**The QueryUnload Event**

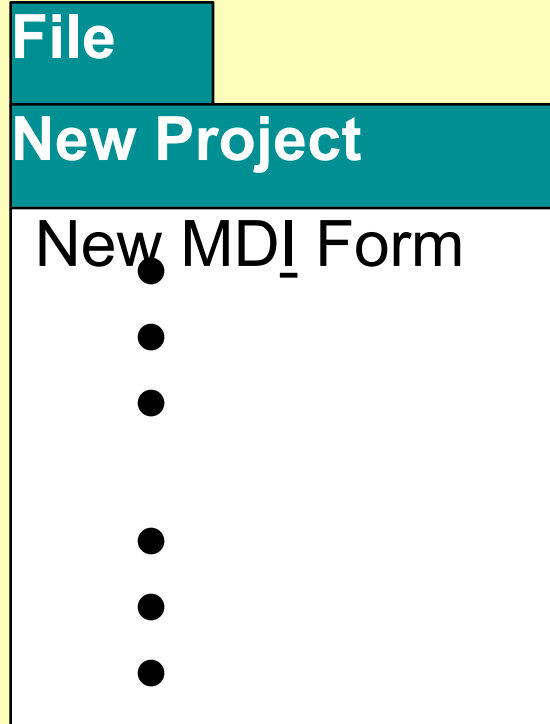
# What Is MDI?



# Creating an MDI Application — Walkthrough



# Creating an MDI Application



# 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**

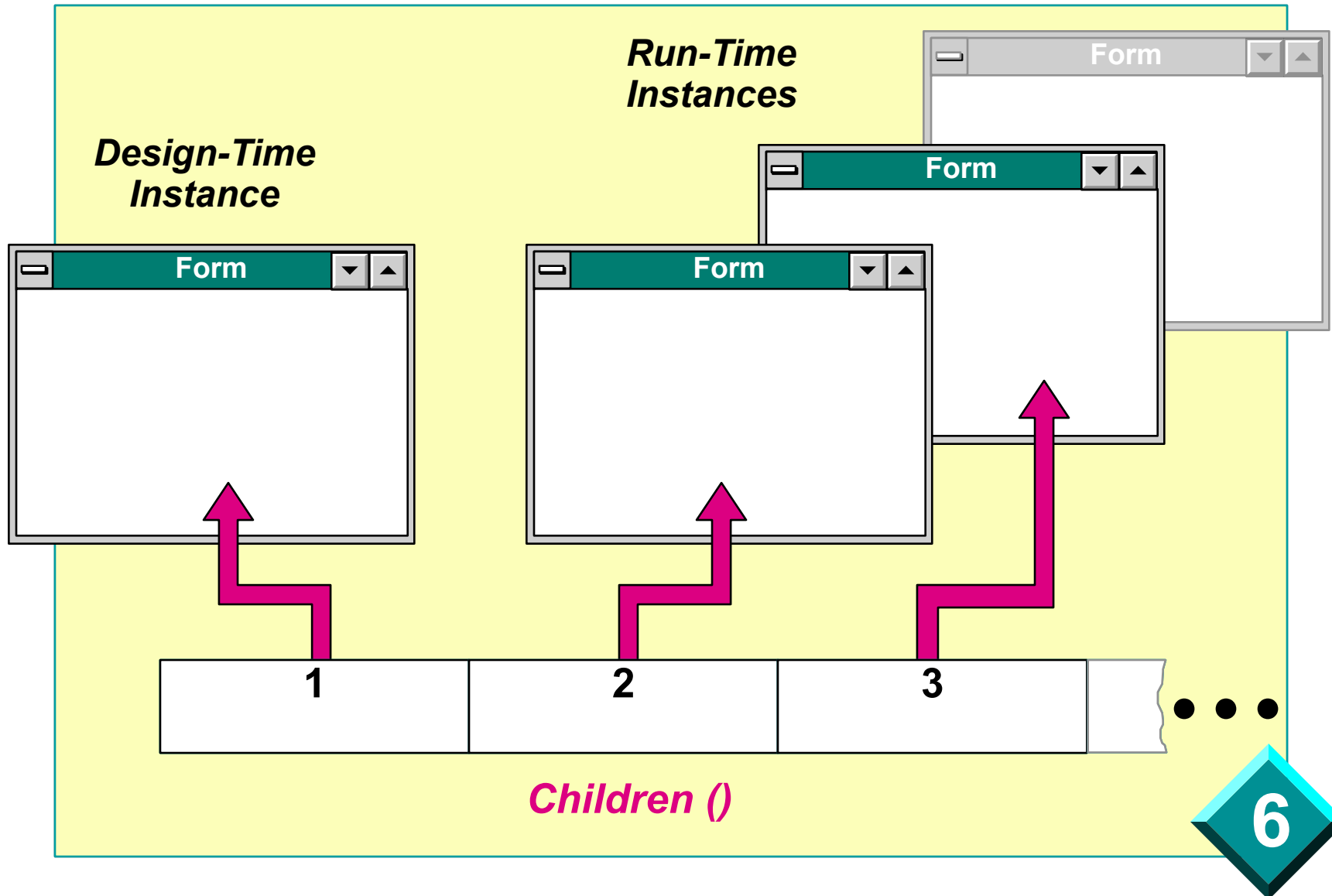
An *object* in object-oriented terms

**MDI Child Created at Design Time Is Both a Class**

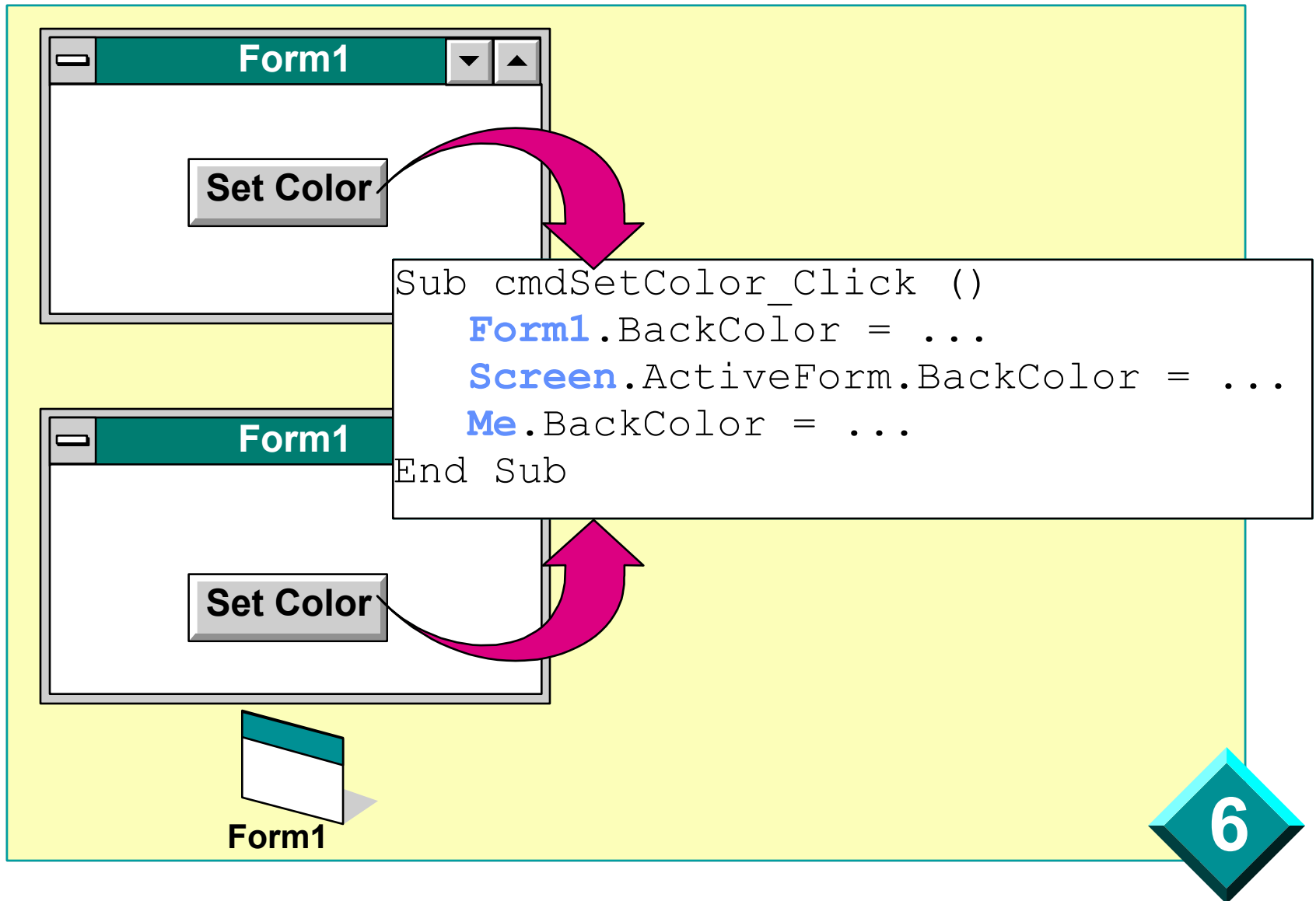
**“Template” and One Object of That Class**

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

# Creating an Object Variable Array to Refer to Forms



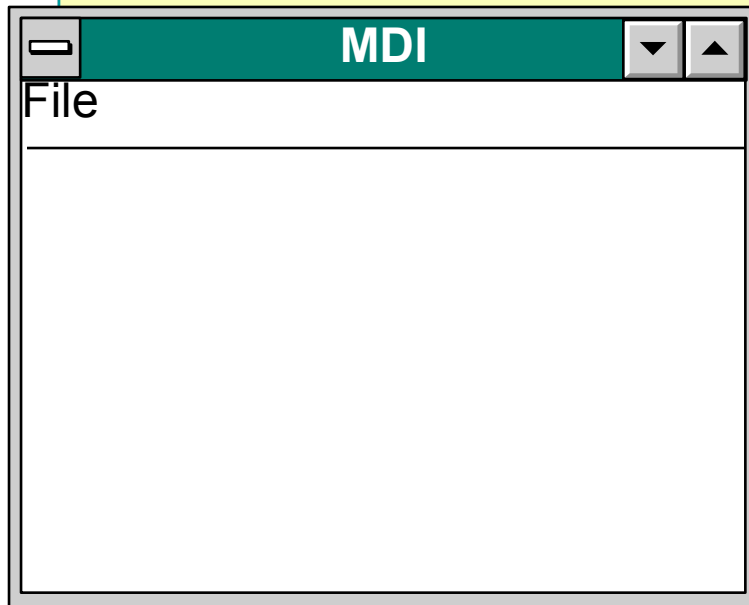
# The **Me** Keyword



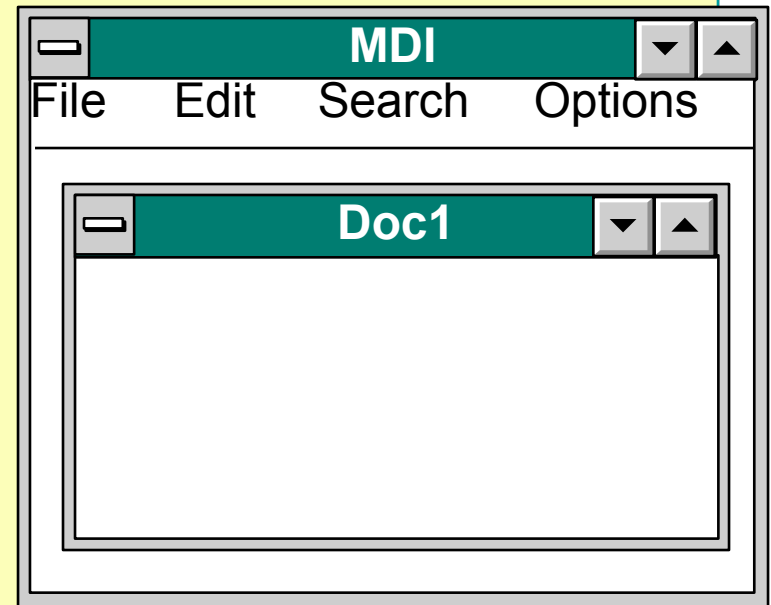


# Menus in MDI Applications

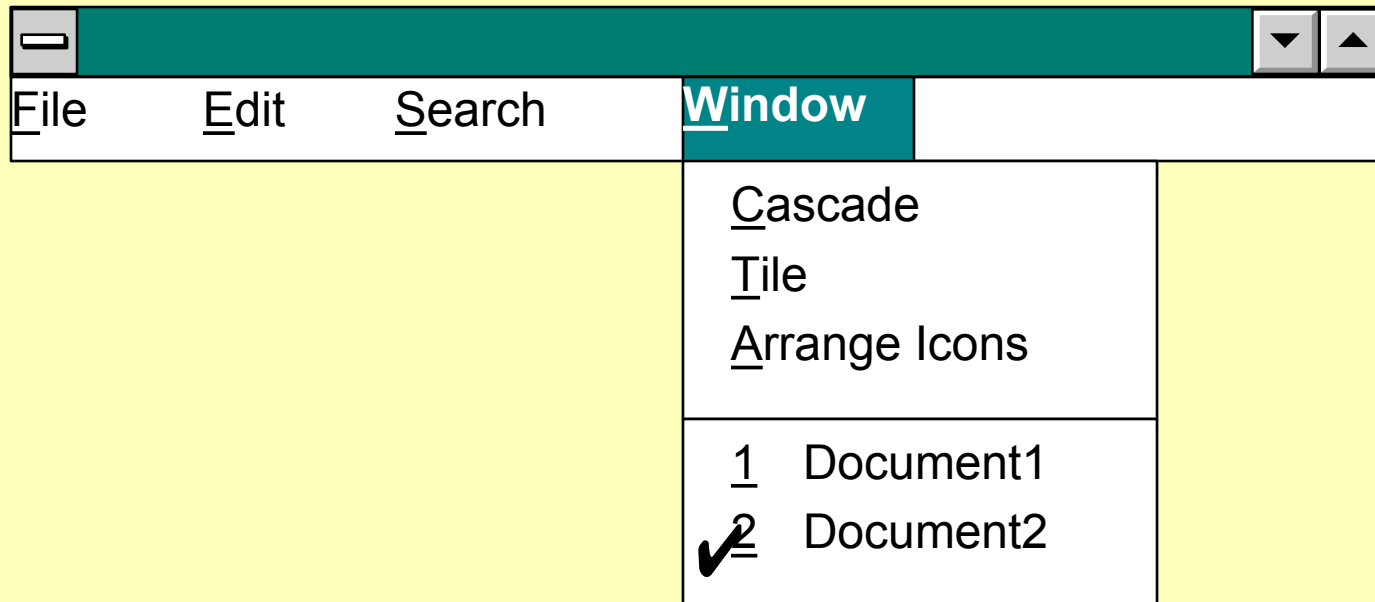
**MDI Parent Form with  
No Child Form Loaded**



**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:

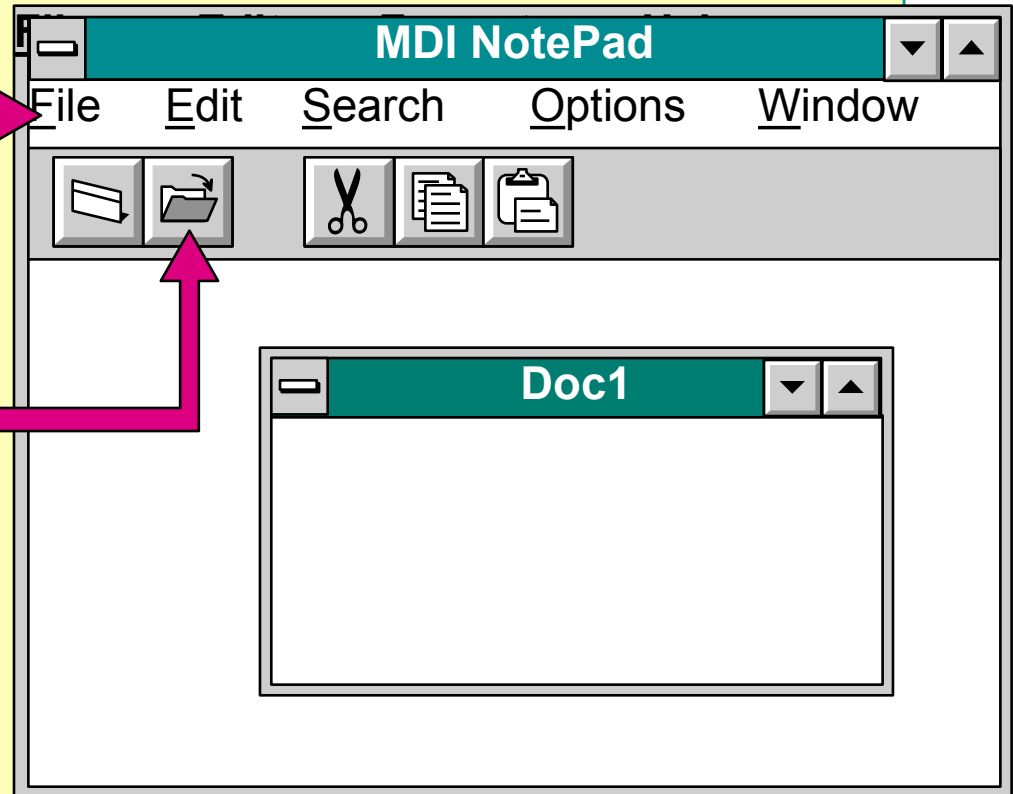
```
Sub mnuFileOpen_Click  
    CreateNewBoy  
End Sub
```

## 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

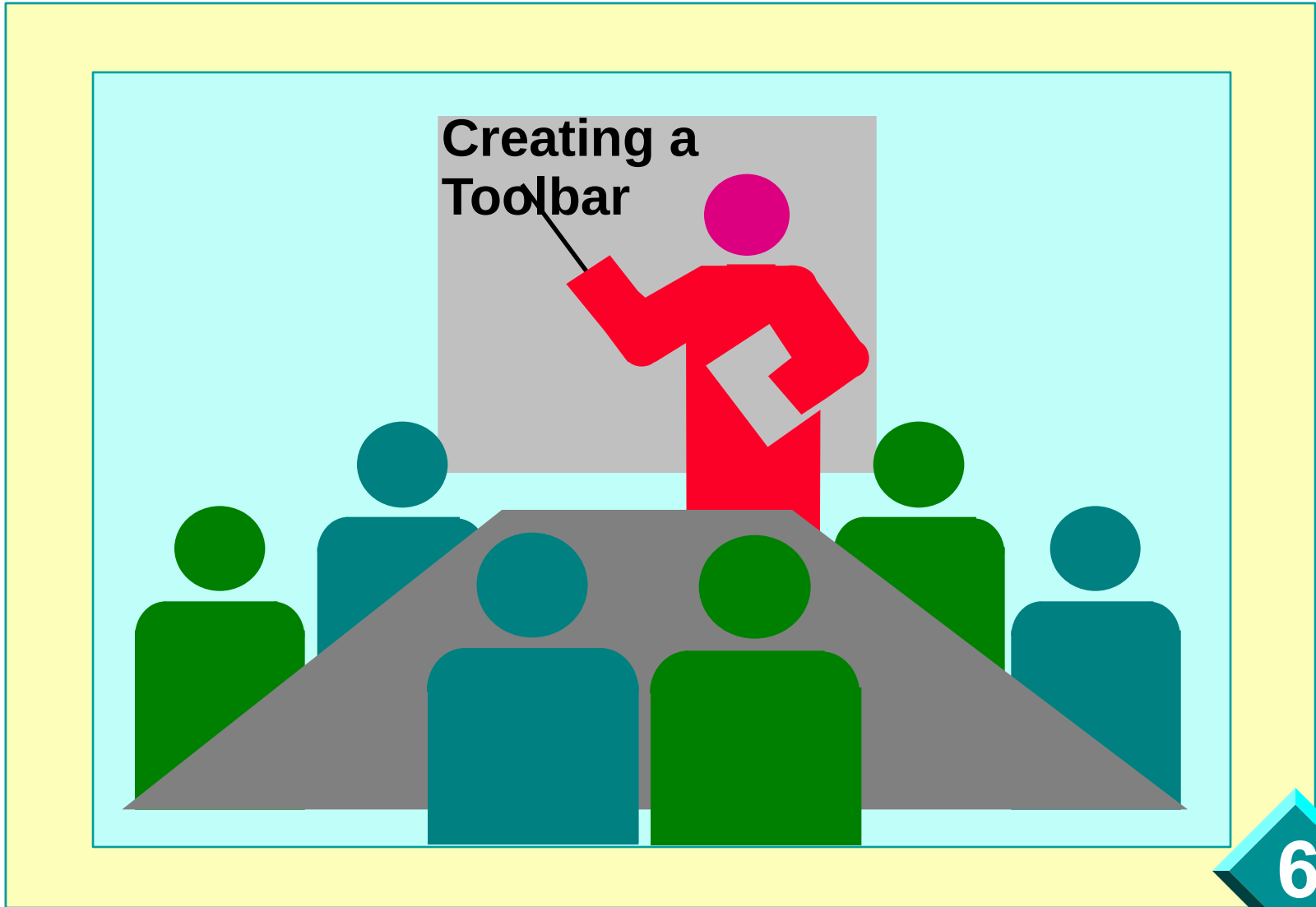
Cannot access child form's variables

## 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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**Creating an MDI Application**

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**Menus in an MDI Application**

**Forms Collection**

**Creating a Toolbar**

**The QueryUnload Event**