

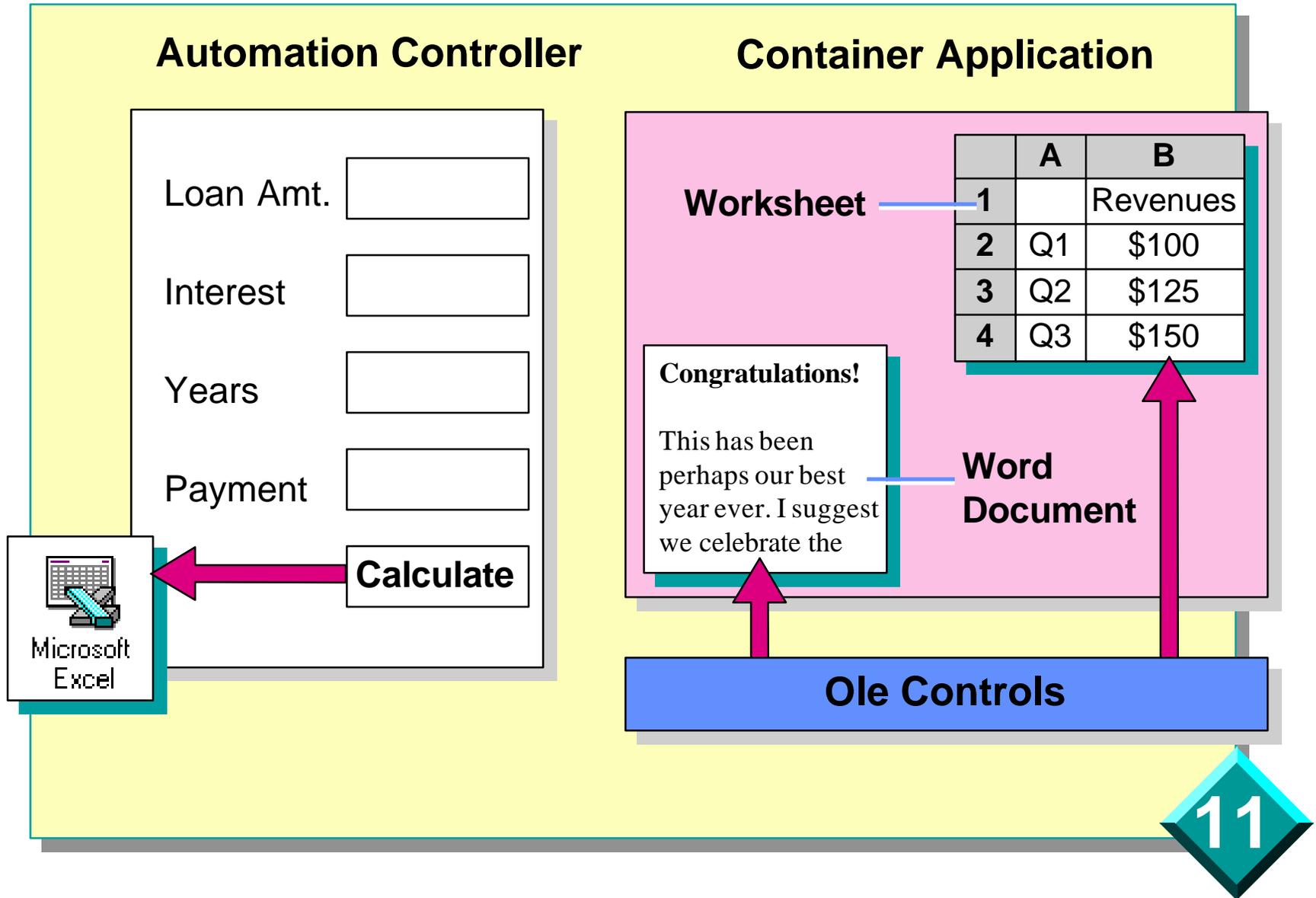
Module 11: Object Linking and Embedding

11

◆ Overview

- What Is Object Linking and Embedding?
- What OLE 2 Servers Are Available?
- What OLE2 Clients Are Available?
- OLE Automation
- Using the OLE Control
 - Linking
 - Embedding
 - Programming

What is OLE?



What OLE 2 Servers are Available?

- Microsoft Excel 5.0
- Microsoft Word for Windows 6.0
- Microsoft Project 4.0
- Future Releases of Other Main Microsoft Applications
- Applications From Third Parties

What OLE 2 Clients are Available?

- Visual Basic 3.0
- Microsoft Excel 5.0
- Microsoft Access 2.0
- Microsoft Project 4.0
- Future Releases of Other Main Microsoft Applications
- Applications From Third Parties

◆ OLE Automation

- Object Variables - Set
- GetObject
- CreateObject
- Visual Basic Controlling Microsoft Excel
- Visual Basic Controlling Microsoft Word for Windows

Set Statement

Syntax

```
Set objectvar = application.objectname[(index)]
```

Example

```
Dim xl as object  
Set xl = CreateObject("Excel.Application.5")  
xl.Workbooks.add ' Adds a new workbook in Excel
```

CreateObject Function

- Used With An Application That is Not Open

Syntax

```
Set objvar = CreateObject(programID)
```

Example

```
Set MSWord = CreateObject("Word.Basic")
```

GetObject Function

- Use to Get a File or Running Application as an Object

Syntax

```
Set objvar = GetObject(FileName, Class)
```

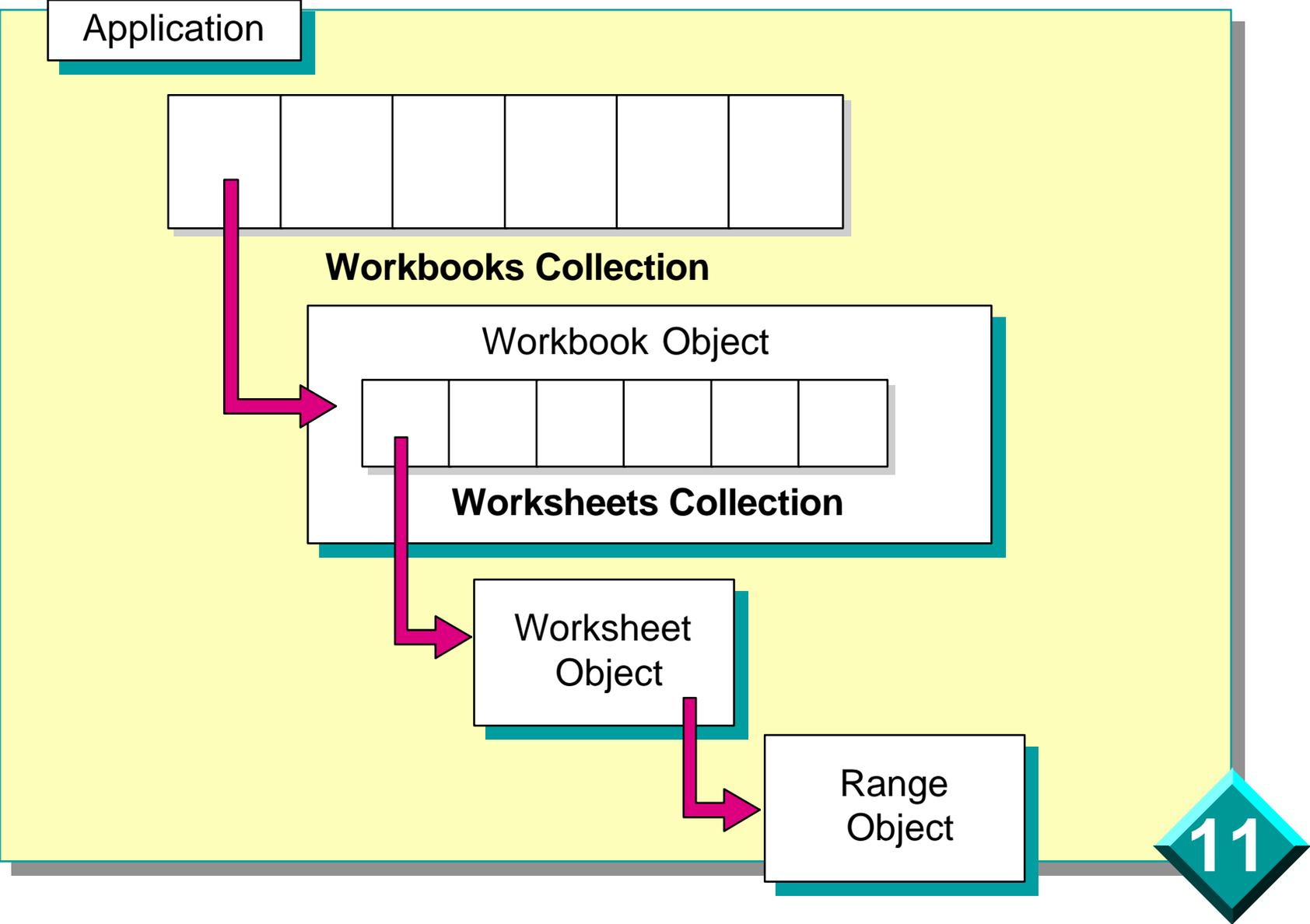
Example 1

```
Dim ActMSWord as Object  
Set ActMSWord = GetObject("C:\REPORTS\Q1.DOC", _  
    "Word.Basic")
```

Example 2

```
Dim Proj as Object  
Set Proj=GetObject(, "MSProject.Project.4")
```

Microsoft Excel Objects



Controlling Excel with Visual Basic

```
Dim xl As Object
Set xl = GetObject(,"Excel.Application.5")
'Use Excel Object to call VBA code
xl.Workbooks("book1.xls").Worksheets("sheet1") _
    .Activate
xl.Range("A1").value = 2
```

Recording Code in Microsoft Excel

- Visual Basic for Applications Edition

Versus

- Visual Basic Professional or Standard Editions

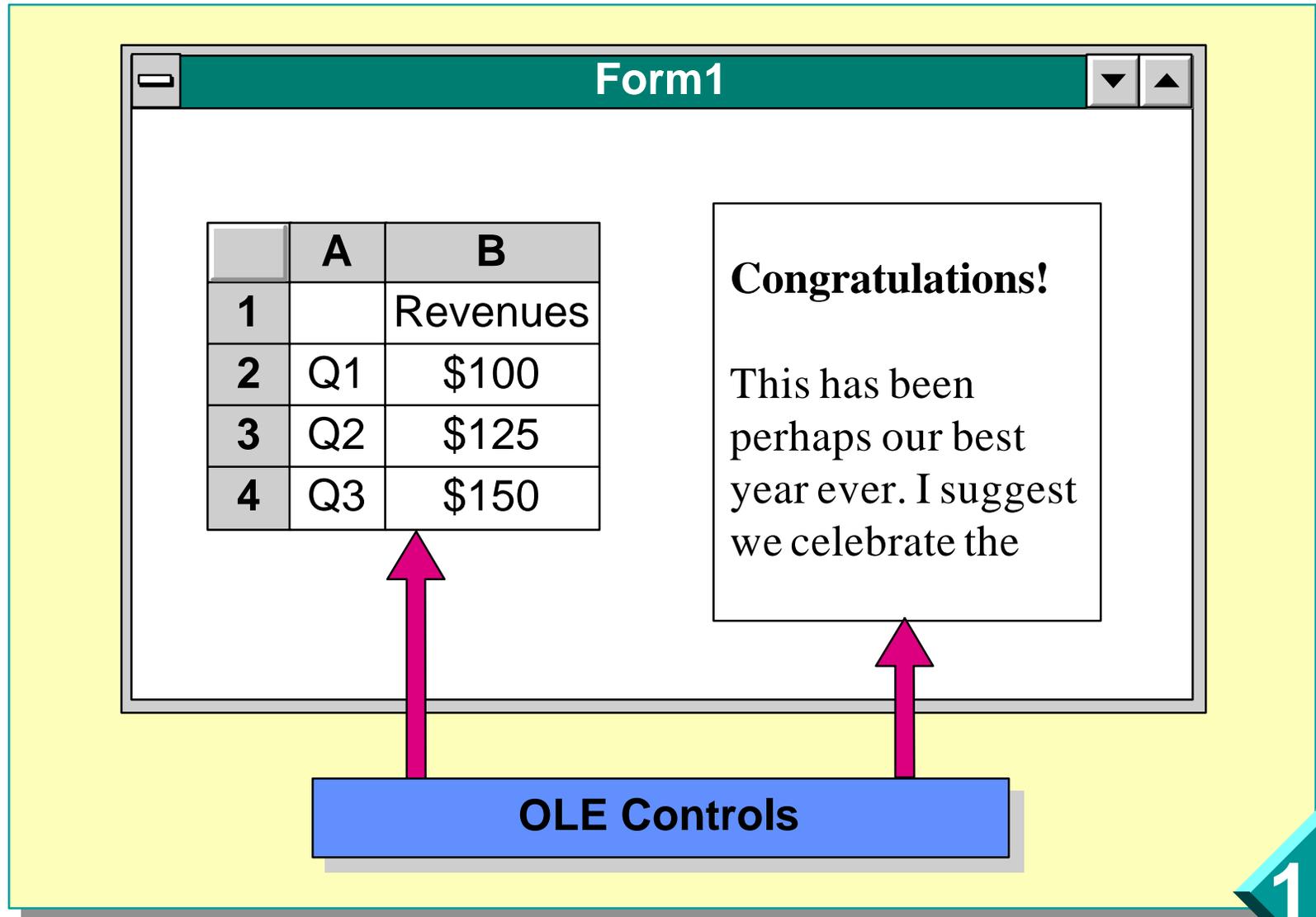
Controlling Word with Visual Basic

```
Dim wd As Object
Set wd = CreateObject("Word.Basic")
'Use Word Basic statements as methods
wd.FileNewDefault
wd.FontSize 24
wd.Insert "Hello, world!"
```

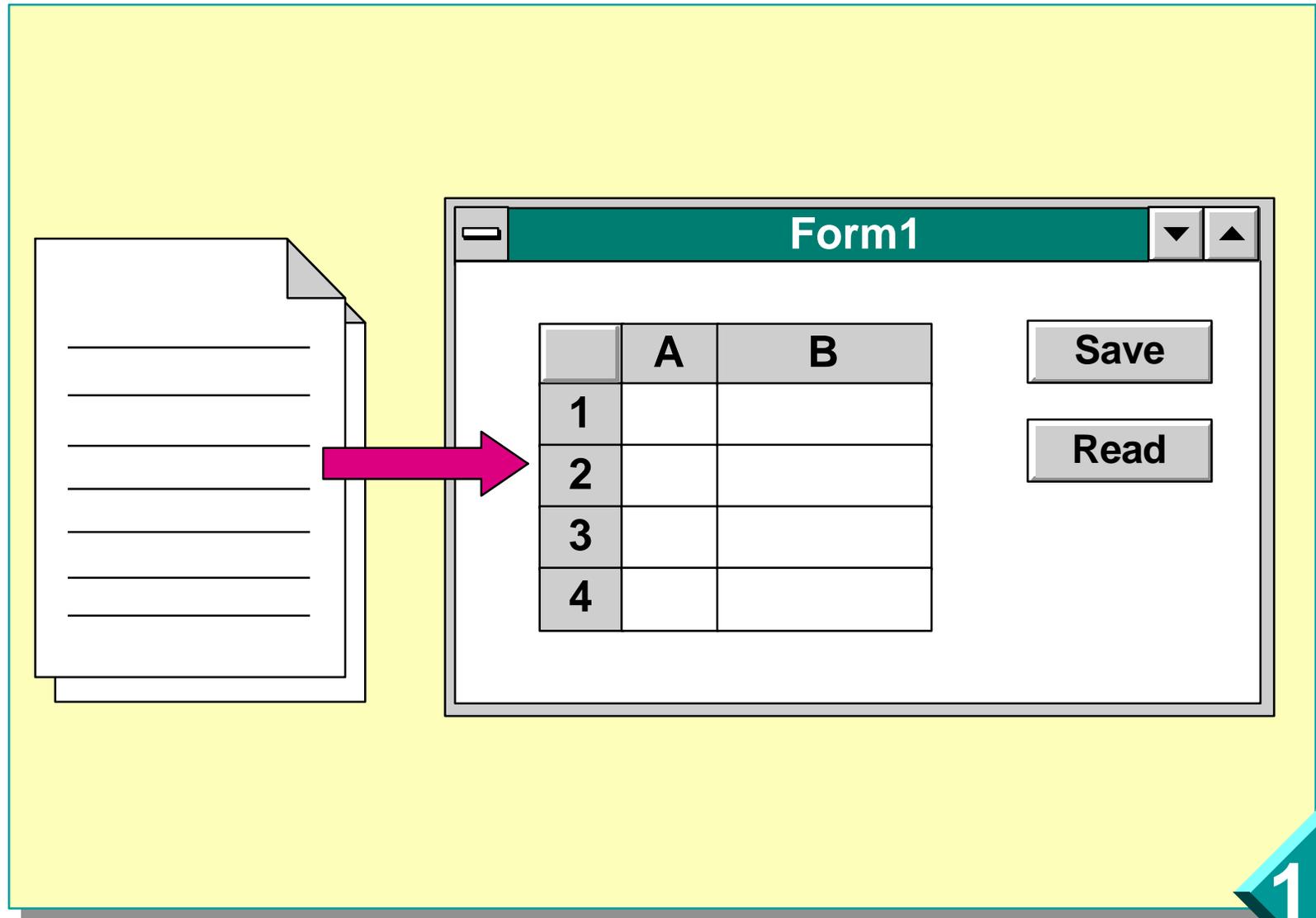
◆ Using the OLE Control

- Linking or Embedding
- Programming with the OLE Control

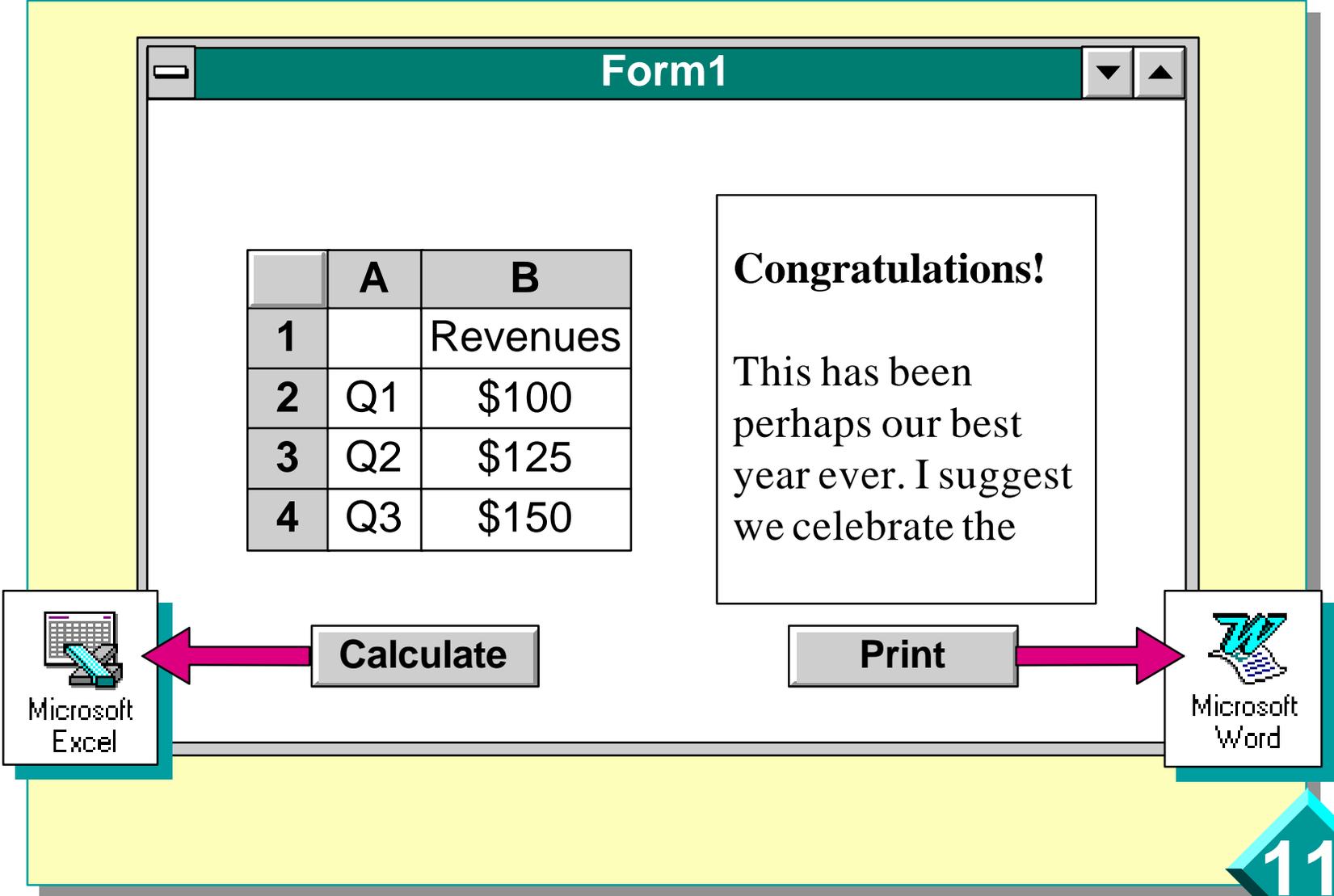
Linking or Embedding an Object



Saving and Reading an Embedded Object



Programming Using the OLE Control



Changing Ole Properties at Run Time

- **Class** The application that created the object
- **OleType Allowed** Type of object you can create (linked, embedded, or either)
- **SourceDoc** Name of document to link to or to embed
- **Sourceltem** Data within SourceDoc (linked objects only)
- **Action** Operation to perform on an OLE object
- **SizeMode** How to size control.
- **DisplayType** Display as icon or text

Summary

- What Is Object Linking and Embedding?
- What OLE 2 Servers Are Available?
- OLE Automation
- Using the OLE Control
 - Linking
 - Embedding
 - Programming

Lab Time

