

Module 3: File Input and Output

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Overview

Types of Data Access

Selecting a Filename

Processing Data in a Sequential-Access File

General File I/O Issues

Types of Data Access

Access type	Description
Sequential	Files containing variable-length records.
Random	Files containing fixed-length records.
Binary	Everything else. A file is treated as a sequence of individual bytes.

File Access Overview

- 1** Select a Filename
- 2** Assign a File Number
- 3** Open the File
- 4** Process the Data
- 5** Close the File

File Functions and Statements

FUNCTIONS:

File Handle **FreeFile()**

File Size **Len(FileHandle)**

File Location **Seek(FileHandle)**

End of File **EOF(FileHandle)**

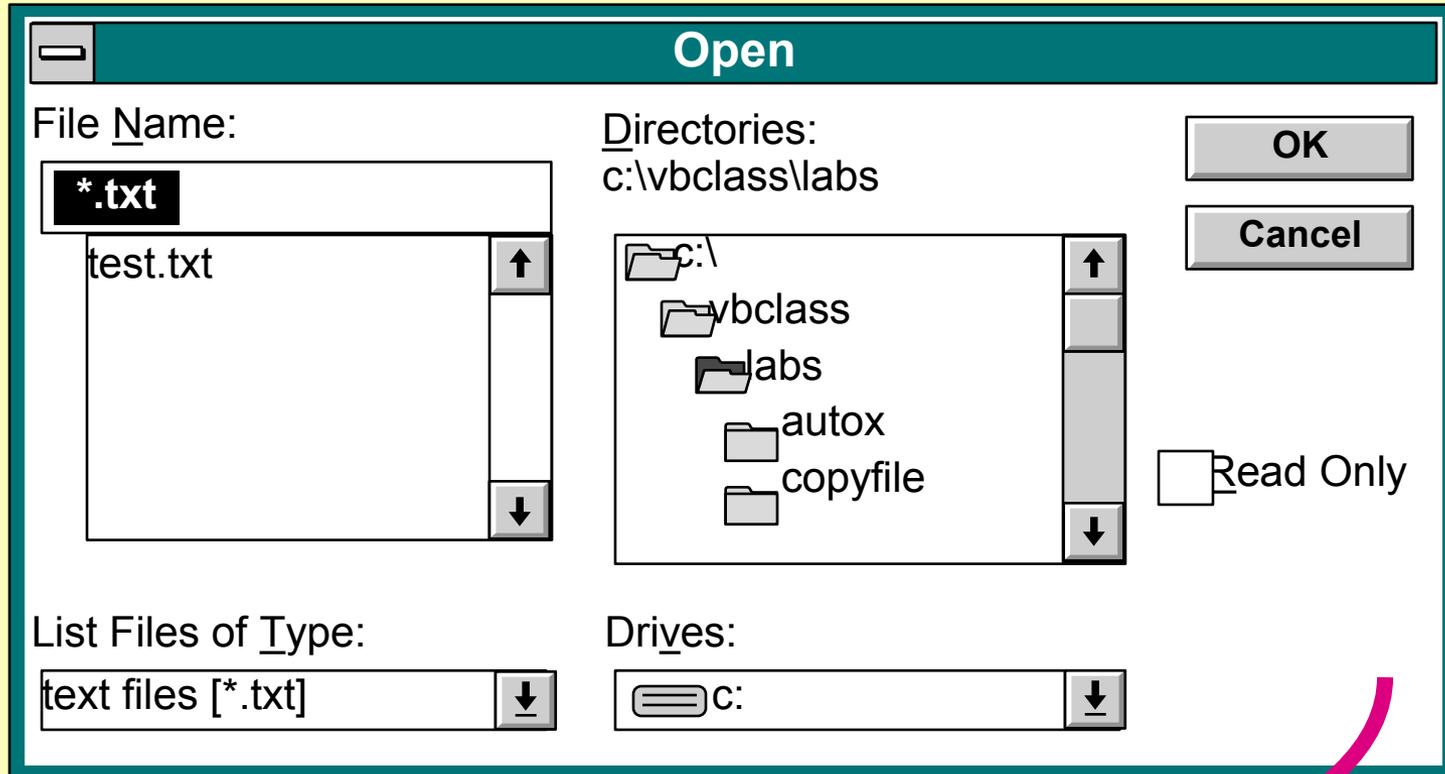
Beginning of File **BOF(FileHandle)**

STATEMENTS:

Position File **Seek FileHandle, Position**

Selecting a Filename

```
CMDialog.Action = 1
```



```
filename$ = CMDialog.FileName
```

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Open and Close Statements

```
Dim fhandle As Integer
```

```
fhandle = FreeFile
```

```
Open file$
```

```
    [For mode] [Access  
    access]
```

```
    As fhandle
```

```
    [Len = len]
```

```
Close fhandle
```

Example Open Statements

Sequential Files:

`Open filename$ For Append As filehandle$`

`Open filename$ For Input As filehandle$`

`Open filename$ For Output As filehandle$`

Binary Files:

`Open filename$ For Binary Access Read As
filehandle$`

Random Files:

`Open filename$ For Random Access Read As
filehandle$ Len = length`

Input and Output Statements

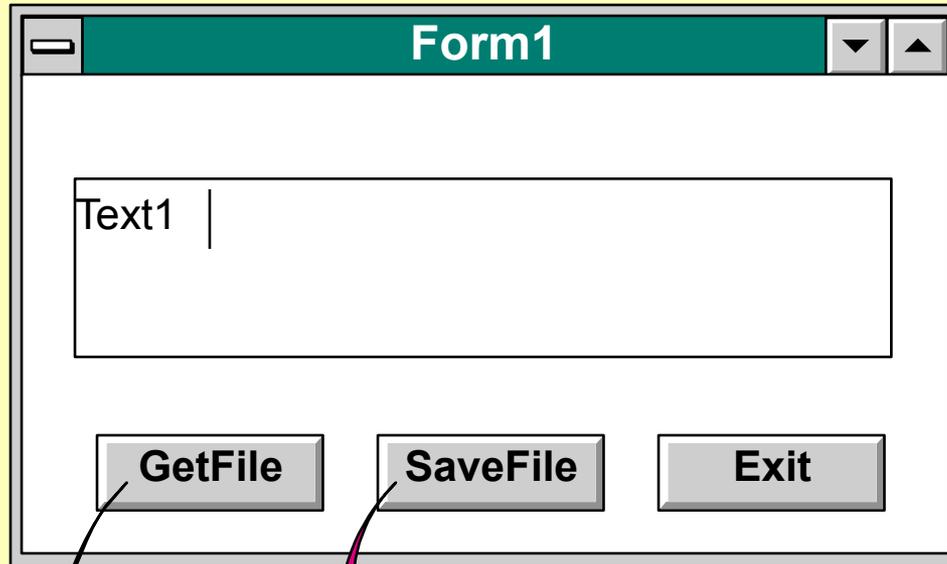
To Read an Entire File

```
Text1.Text = Input$(LOF(fhandle), fhandle)
```

To Write to a File

```
Print #fhandle, Text1.Text
```

A Simple Text Editor



Open FileName For Output...
Print #FileNum...

Open FileName For Input...
Text1.Text = Input\$(LOF (FileNum) ...)

File Management

FileCopy

```
FileCopy sourcefilename$ destfilename$
```

Dir\$ Function

```
Match = Dir$(FileSpec$)
```

General File I/O Issues

Overwrite Existing File?

Save Changes Before Exit?

ChDir Statement

ChDrive Statement

Summary

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