

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)**

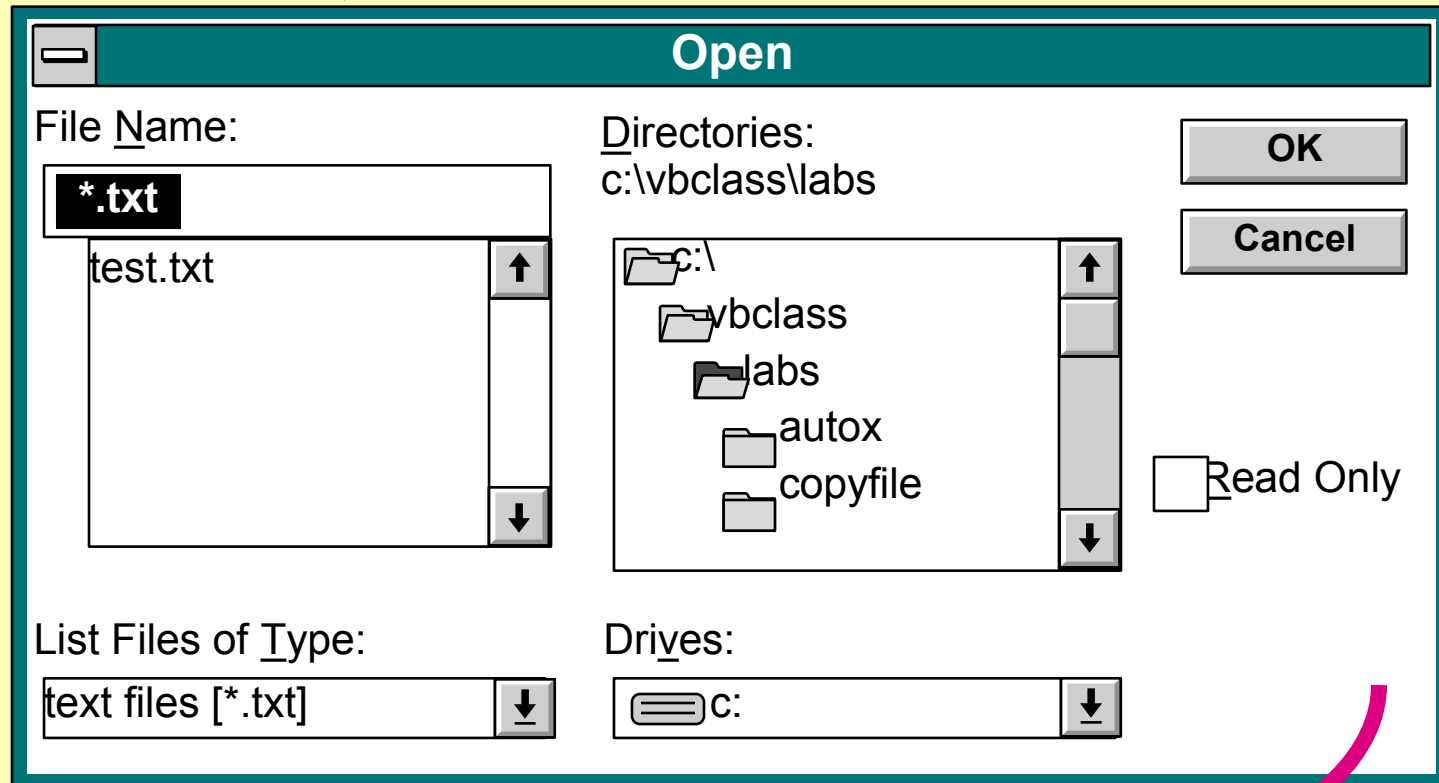
Beginning of File **BOF(FileHandle)**

STATEMENTS:

Position File **Seek FileHandle, Position**

Selecting a Filename

```
CMDialog.Action = 1
```



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

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

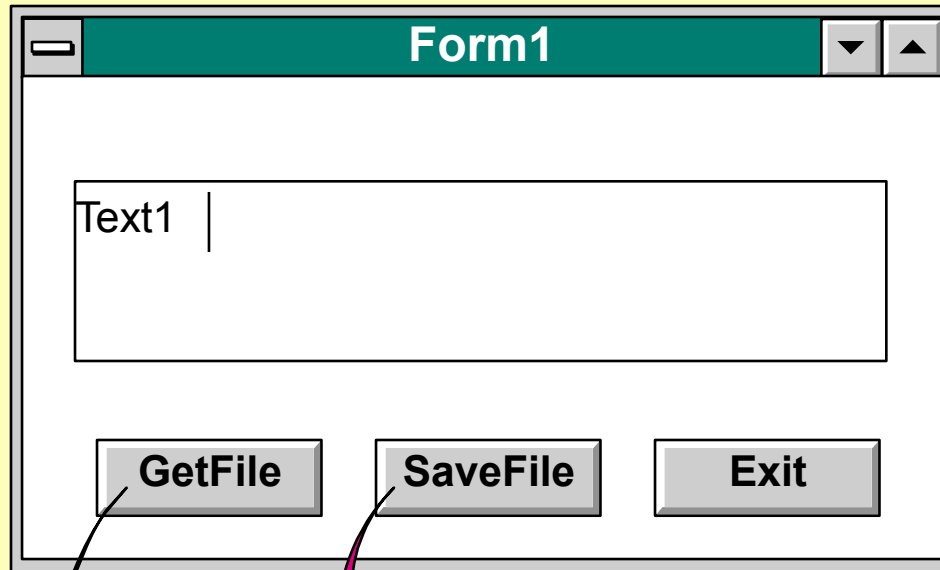
To Read an Entire File

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

To Write to a File

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

A Simple Text Editor



The screenshot shows a window titled "Form1" with a standard Windows-style title bar (minimize, maximize, close buttons). Inside the window, there is a text box labeled "Text1" with a vertical cursor. Below the text box are three buttons: "GetFile", "SaveFile", and "Exit".

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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