

Notepad Code:

```

DECLARE rollNo : INTEGER
DECLARE sName : STRING
DECLARE sConatct : STRING
DECLARE sFee : CURRENCY
DECLARE isFeePaid : BOOLEAN

INPUT "Enter roll number: ", rollNo
INPUT "Enter student name: ", sName
INPUT "Enter student contact: ", sContact
INPUT "Enter fee amount: ", sFee
INPUT "Is fee paid? ", isFeePaid

OPENFILE "sRec.txt" FOR APPEND

WRITEFILE "sRec.txt", rollNo
WRITEFILE "sRec.txt", sName
WRITEFILE "sRec.txt", sContact
WRITEFILE "sRec.txt", sFee
WRITEFILE "sRec.txt", isFeePaid

CLOSEFILE "sRec.txt"

```

Visual Basic Code:

```

Dim rollNo As Integer
Dim sName, sContact As String
Dim sFee As Decimal
Dim isFeePaid As Boolean

Console.WriteLine("Enter roll number: ")
rollNo = Console.ReadLine

Console.WriteLine("Enter student name: ")
sName = Console.ReadLine

Console.WriteLine("Enter student contact: ")
sContact = Console.ReadLine

Console.WriteLine("Enter fee amount: ")
sFee = Console.ReadLine

Console.WriteLine("Is fee paid? ")
isFeePaid = Console.ReadLine

FileOpen(1, "d:\filePractice\sRec.txt", OpenMode.Append)

Writeline(1, rollNo)
Writeline(1, sName)
Writeline(1, sContact)
Writeline(1, sFee)
Writeline(1, isFeePaid)

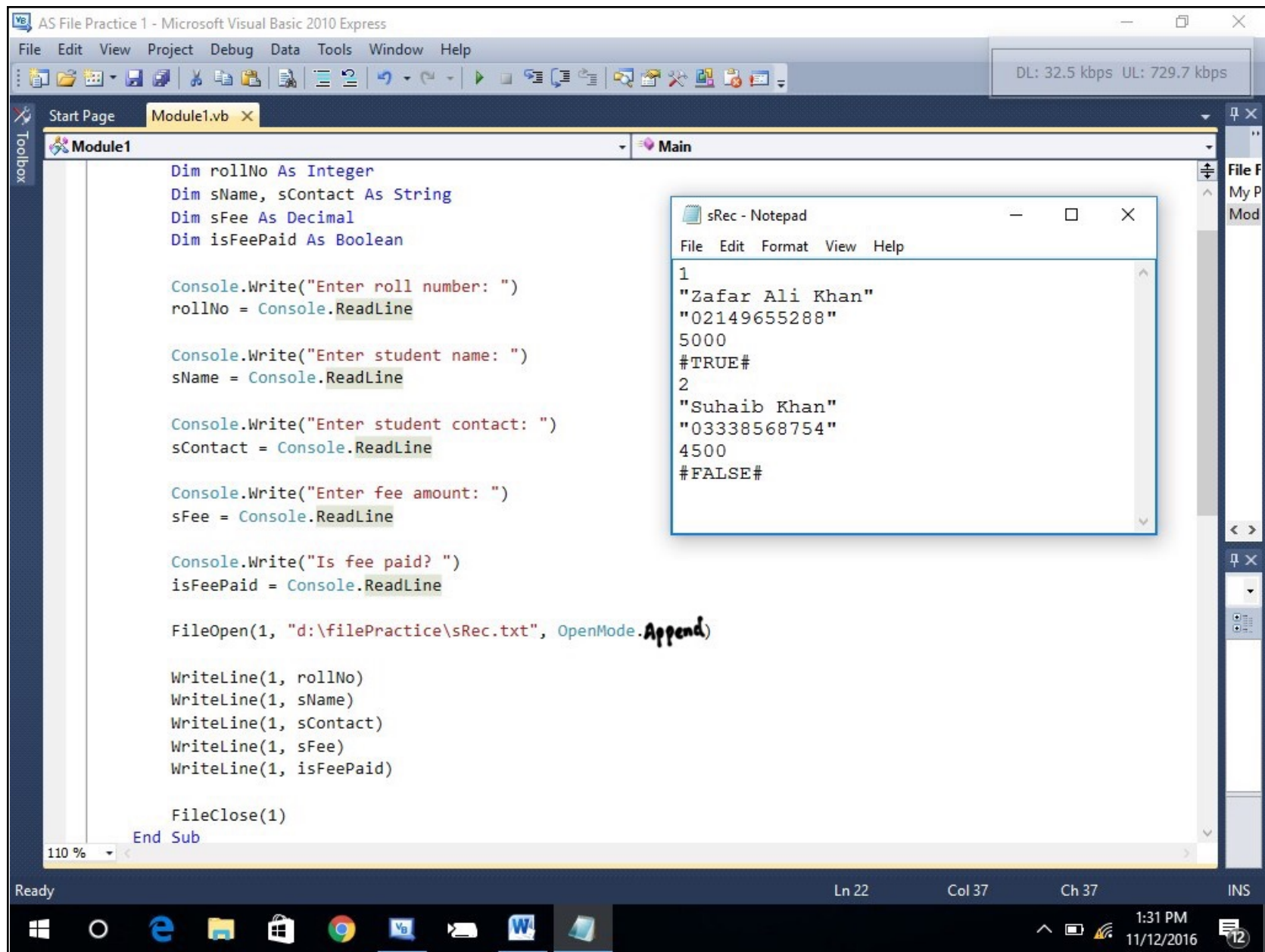
FileClose(1)

```

Handwritten Annotations:

- ①: Points to the variable declarations in both windows.
- ②: Points to the input statements in both windows.
- ③: Points to the file opening statement in both windows.
- ④: Points to the file writing statements in both windows.
- ⑤: Points to the file closing statement in both windows.

Watermark: Visual Basic .net



The image shows a side-by-side comparison of a Notepad file and its Visual Basic 2010 Express code. The Notepad window on the left contains a text file named 'AS Filing practice 2 - Notepad'. The Visual Basic window on the right is titled 'AS File Practice 2 - Microsoft Visual Basic 2010 Express' and shows the code for 'Module1.vb'.

Handwritten annotations in red circles and numbers connect the two windows:

- ①** Points to the variable declarations in both windows: `DECLARE rollNo : INTEGER`, `DECLARE sName : STRING`, `DECLARE sConatct : STRING`, `DECLARE sFee : CURRENCY`, and `DECLARE isFeePaid : BOOLEAN` in Notepad; and `Dim rollNo As Integer`, `Dim sName, sContact As String`, `Dim sFee As Decimal`, and `Dim isFeePaid As Boolean` in Visual Basic.
- ③** Points to the file opening operation: `OPENFILE "sRec.txt" FOR INPUT` in Notepad and `FileOpen(1, "d:\filePractice\sRec.txt", OpenMode.Input)` in Visual Basic.
- ⑥** Points to the file reading operation: `READFILE "sRec.txt", rollNo`, `READFILE "sRec.txt", sName`, `READFILE "sRec.txt", sContact`, `READFILE "sRec.txt", sFee`, and `READFILE "sRec.txt", isFeePaid` in Notepad; and `Input(1, rollNo)`, `Input(1, sName)`, `Input(1, sContact)`, `Input(1, sFee)`, and `Input(1, isFeePaid)` in Visual Basic.
- ⑦** Points to the file writing operation: `OUTPUT "Roll number: ", rollNo`, `OUTPUT "Student name: ", sName`, `OUTPUT "Student contact: ", sContact`, `OUTPUT "Fee amount: ", sFee`, and `OUTPUT "Is fee paid? ", isFeePaid` in Notepad; and `Console.WriteLine("roll number: " & rollNo)`, `Console.WriteLine("student name: " & sName)`, `Console.WriteLine("student contact: " & sContact)`, `Console.WriteLine("fee amount: " & sFee)`, and `Console.WriteLine("Is fee paid? " & isFeePaid)` in Visual Basic.
- ④** Points to the file closing operation: `CLOSEFILE "sRec.txt"` in Notepad and `FileClose(1)` in Visual Basic.

The Visual Basic code also includes `Console.ReadKey()` and a `Sub` block.

Steps for INPUT from File & OUTPUT to Display (Console).

USE OF EOF()
Function in precondition while loop. This is done to read complete records until the End of File!

```
DECLARE rollNo : INTEGER
DECLARE sName : STRING
DECLARE sContact : STRING
DECLARE sFee : CURRENCY
DECLARE isFeePaid : BOOLEAN

OPENFILE "sRec.txt" FOR INPUT

WHILE NOT EOF("sRec.txt")
    READFILE "sRec.txt", rollNo
    READFILE "sRec.txt", sName
    READFILE "sRec.txt", sContact
    READFILE "sRec.txt", sFee
    READFILE "sRec.txt", isFeePaid

    OUTPUT "Roll number: ", rollNo
    OUTPUT "Student name: ", sName
    OUTPUT "Student contact: ", sContact
    OUTPUT "Fee amount: ", sFee
    OUTPUT "Is fee paid? ", isFeePaid
ENDWHILE

CLOSEFILE "sRec.txt"
```

AS File Practice 2 - Microsoft Visual Basic 2010 Express

```
Module1

Main()

Dim rollNo As Integer
Dim sName, sContact As String
Dim sFee As Decimal
Dim isFeePaid As Boolean

FileOpen(1, "d:\filePractice\sRec.txt", OpenMode.Input)

While Not EOF(1)
    Input(1, rollNo)
    Input(1, sName)
    Input(1, sContact)
    Input(1, sFee)
    Input(1, isFeePaid)

    Console.WriteLine("Enter roll number: " & rollNo)
    Console.WriteLine("Enter student name: " & sName)
    Console.WriteLine("Enter student contact: " & sContact)
    Console.WriteLine("Enter fee amount: " & sFee)
    Console.WriteLine("Is fee paid? " & isFeePaid)
End While

FileClose(1)

Console.ReadKey()
Sub
```


AS Filing practice 2 - Notepad

File Edit Format View Help

Steps for INPUT from File & OUTPUT to Display (Console).

Use of Repeat...Until post condition loop for EOF() function.

```

DECLARE rollNo : INTEGER
DECLARE sName : STRING
DECLARE sConatct : STRING
DECLARE sFee : CURRENCY
DECLARE isFeePaid : BOOLEAN

OPENFILE "sRec.txt" FOR INPUT

REPEAT
    READFILE "sRec.txt", rollNo
    READFILE "sRec.txt", sName
    READFILE "sRec.txt", sContact
    READFILE "sRec.txt", sFee
    READFILE "sRec.txt", isFeePaid

    OUTPUT "Roll number: ", rollNo
    OUTPUT "Student name: ", sName
    OUTPUT "Student contact: ", sContact
    OUTPUT "Fee amount: ", sFee
    OUTPUT "Is fee paid? ", isFeePaid
UNTIL EOF("sRec.txt") = TRUE
CLOSEFILE "sRec.txt"
  
```

AS File Practice 2 - Microsoft Visual Basic 2010 Express

File Edit View Project Debug Data Tools Window Help

Start Page Module1.vb

Module1

Main

```

Main()

Dim rollNo As Integer
Dim sName, sContact As String
Dim sFee As Decimal
Dim isFeePaid As Boolean

FileOpen(1, "d:\filePractice\sRec.txt", OpenMode.Input)

Do
    Input(1, rollNo)
    Input(1, sName)
    Input(1, sContact)
    Input(1, sFee)
    Input(1, isFeePaid)

    Console.WriteLine("Enter roll number: " & rollNo)
    Console.WriteLine("Enter student name: " & sName)
    Console.WriteLine("Enter student contact: " & sContact)
    Console.WriteLine("Enter fee amount: " & sFee)
    Console.WriteLine("Is fee paid? " & isFeePaid)

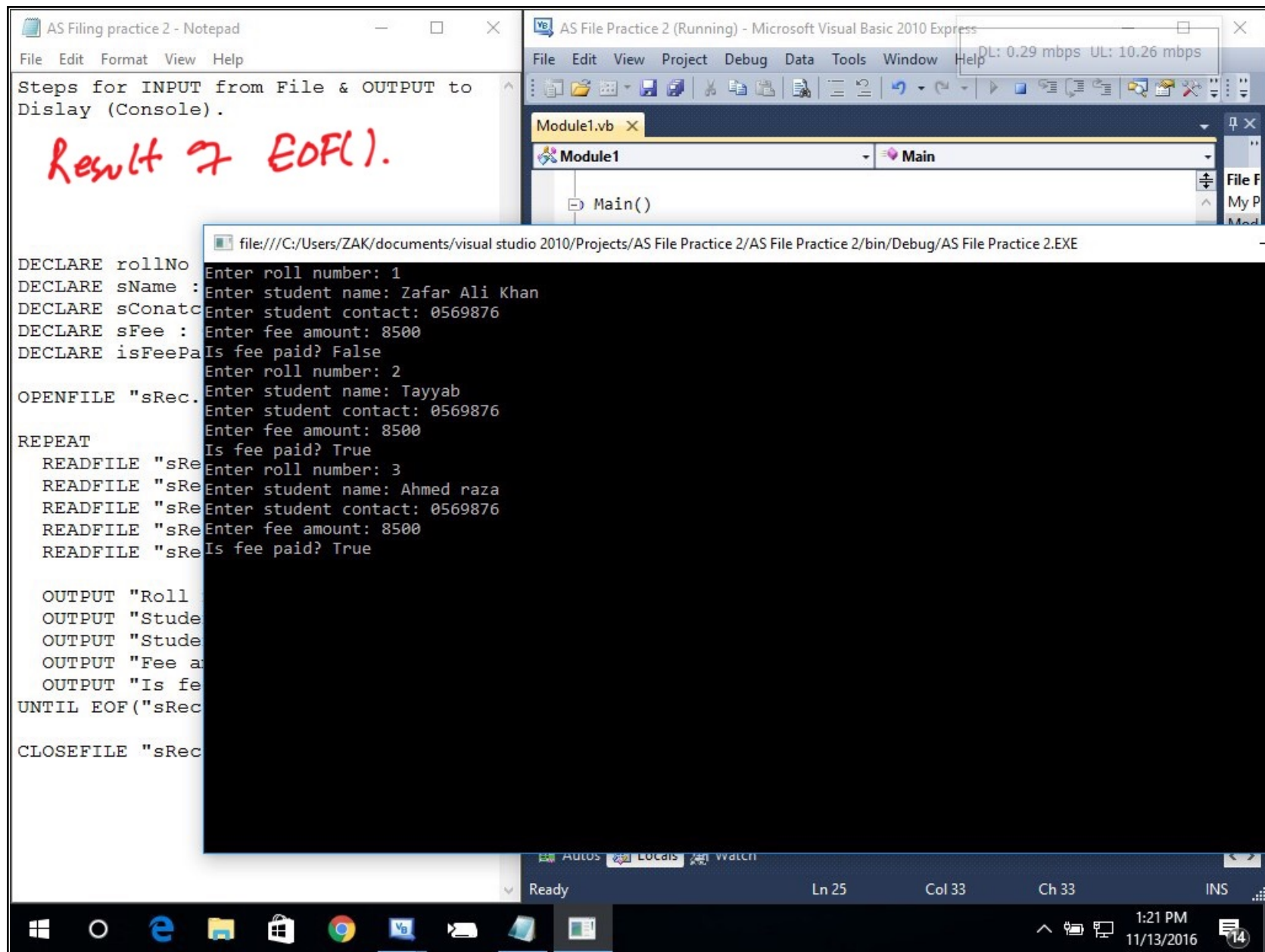
Loop Until EOF(1) = True
FileClose(1)

Console.ReadKey()
Sub
  
```

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AS Filing practice 2 - Notepad

File Edit Format View Help

Steps for INPUT from File & OUTPUT to Display (Console).

Result 7 EOF().

```
DECLARE rollNo
DECLARE sName :
DECLARE sConatc
DECLARE sFee :
DECLARE isFeePa

OPENFILE "sRec.

REPEAT
  READFILE "sRe
  READFILE "sRe
  READFILE "sRe
  READFILE "sRe
  READFILE "sRe

  OUTPUT "Roll
  OUTPUT "Stude
  OUTPUT "Stude
  OUTPUT "Fee a
  OUTPUT "Is fe

UNTIL EOF("sRec

CLOSEFILE "sRec
```

AS File Practice 2 (Running) - Microsoft Visual Basic 2010 Express

File Edit View Project Debug Data Tools Window Help

DL: 0.29 mbps UL: 10.26 mbps

Module1.vb

Module1

Main

Main()

file:///C:/Users/ZAK/documents/visual studio 2010/Projects/AS File Practice 2/AS File Practice 2/bin/Debug/AS File Practice 2.EXE

Enter roll number: 1
Enter student name: Zafar Ali Khan
Enter student contact: 0569876
Enter fee amount: 8500
Is fee paid? False
Enter roll number: 2
Enter student name: Tayyab
Enter student contact: 0569876
Enter fee amount: 8500
Is fee paid? True
Enter roll number: 3
Enter student name: Ahmed raza
Enter student contact: 0569876
Enter fee amount: 8500
Is fee paid? True

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```

AS Filing practice 2 - Notepad
File Edit Format View Help
DECLARE rollNo : INTEGER
DECLARE sName : STRING
DECLARE sConatct : STRING
DECLARE sFee : CURRENCY
DECLARE isFeePaid : BOOLEAN

DECLARE searchNo : INTEGER
DECLARE isFound : BOOLEAN

isFound = FALSE
INPUT "Search for: ", searchNo
OPENFILE "sRec.txt" FOR INPUT

REPEAT
  READFILE "sRec.txt", rollNo
  READFILE "sRec.txt", sName
  READFILE "sRec.txt", sContact
  READFILE "sRec.txt", sFee
  READFILE "sRec.txt", isFeePaid

  IF rollNo = searchNo
  THEN
    isFound = TRUE

    OUTPUT "Roll number: ", rollNo
    OUTPUT "Student name: ", sName
    OUTPUT "Student contact: ", sContact
    OUTPUT "Fee amount: ", sFee
    OUTPUT "Is fee paid? ", isFeePaid
  ENDIF
UNTIL EOF("sRec.txt") = TRUE

IF isFound = False
THEN
  OUTPUT "Rec. Not Found"
ENDIF
CLOSEFILE "sRec.txt"

AS File Practice 2 - Microsoft Visual Basic 2010 Express
File Edit View Project Debug Data Tools Window Help
Module1.vb
Module1 Main
Dim rollNo, searchNo As Integer
Dim sName, sContact As String
Dim sFee As Decimal
Dim isFeePaid, isFound As Boolean

isFound = False
Console.WriteLine("Search for: ")
searchNo = Console.ReadLine
FileOpen(1, "d:\filePractice\sRec.txt", OpenMode.Input)

Do
  Input(1, rollNo)
  Input(1, sName)
  Input(1, sContact)
  Input(1, sFee)
  Input(1, isFeePaid)

  If rollNo = searchNo Then
    isFound = True
    Console.WriteLine("Enter roll number: " & rollNo)
    Console.WriteLine("Enter student name: " & sName)
    Console.WriteLine("Enter student contact: " & sContact)
    Console.WriteLine("Enter fee amount: " & sFee)
    Console.WriteLine("Is fee paid? " & isFeePaid)
  End If

Loop Until EOF(1) = True

If isFound = False Then Console.WriteLine("Record Not Found")
FileClose(1)
  
```




```
AS Filing practice 2 - Notepad
File Edit Format View Help
DECLARE rollNo : INTEGER
DECLARE sName : STRING
DECLARE sConatct : STRING
DECLARE sFee : CURRENCY
DECLARE isFeePaid : BOOLEAN

DEC
DEC
Search for: 2
Enter roll number: 2
Enter student name: Tayyab
Enter student contact: 0569876
Enter fee amount: 8500
Is fee paid? True
REP
R
R
R
R
R
R
I
E
UNT
IF
TH
OUTPUT "Rec. Not Found"
ENDIF
CLOSEFILE "sRec.txt"
```

```
AS File Practice 2 (Running) - Microsoft Visual Basic 2010 Express
File Edit View Project Debug Data Tools Window Help
Module1.vb
Module1
Main
Dim rollNo, searchNo As Integer
```

file:///C:/Users/ZAK/documents/visual studio 2010/Projects/AS File Practice 2/AS File Practice 2/bin/Debug/AS File Practice 2.EXE

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The image shows a Windows desktop environment with two windows open. The window on the left is titled "AS Filing practice 6 - Notepad" and contains a VBA script. The window on the right is titled "AS File Practice 2 - Microsoft Visual Basic 2010 Express" and shows the same script in the IDE. The taskbar at the bottom includes the Start button and icons for Internet Explorer, File Explorer, and Visual Basic.

```
//DELETION
DECLARE rollNo : INTEGER
DECLARE sName : STRING
DECLARE sConatct : STRING
DECLARE sFee : CURRENCY
DECLARE isFeePaid : BOOLEAN
DECLARE isFound : BOOLEAN
DECLARE searchRollNo : INTEGER
isFound = FALSE

INPUT "Enter roll# to delete :", searchRollNo

OPENFILE "sRec.txt" FOR INPUT
OPENFILE "temp.txt" FOR OUTPUT

WHILE NOT EOF("sRec.txt")
    READFILE "sRec.txt", rollNo
    READFILE "sRec.txt", sName
    READFILE "sRec.txt", sContact
    READFILE "sRec.txt", sFee
    READFILE "sRec.txt", isFeePaid

    IF rollNo <> searchRollNo
        THEN
            WRITEFILE "temp.txt", rollNo
            WRITEFILE "temp.txt", sName
            WRITEFILE "temp.txt", sContact
            WRITEFILE "temp.txt", sFee
            WRITEFILE "temp.txt", isFeePaid
        ELSEIF rollNo = searchRollNo
            THEN
                isFound = TRUE
            ENDIF
    ENDWHILE

CLOSEFILE "sRec.txt"
CLOSEFILE "temp.txt"

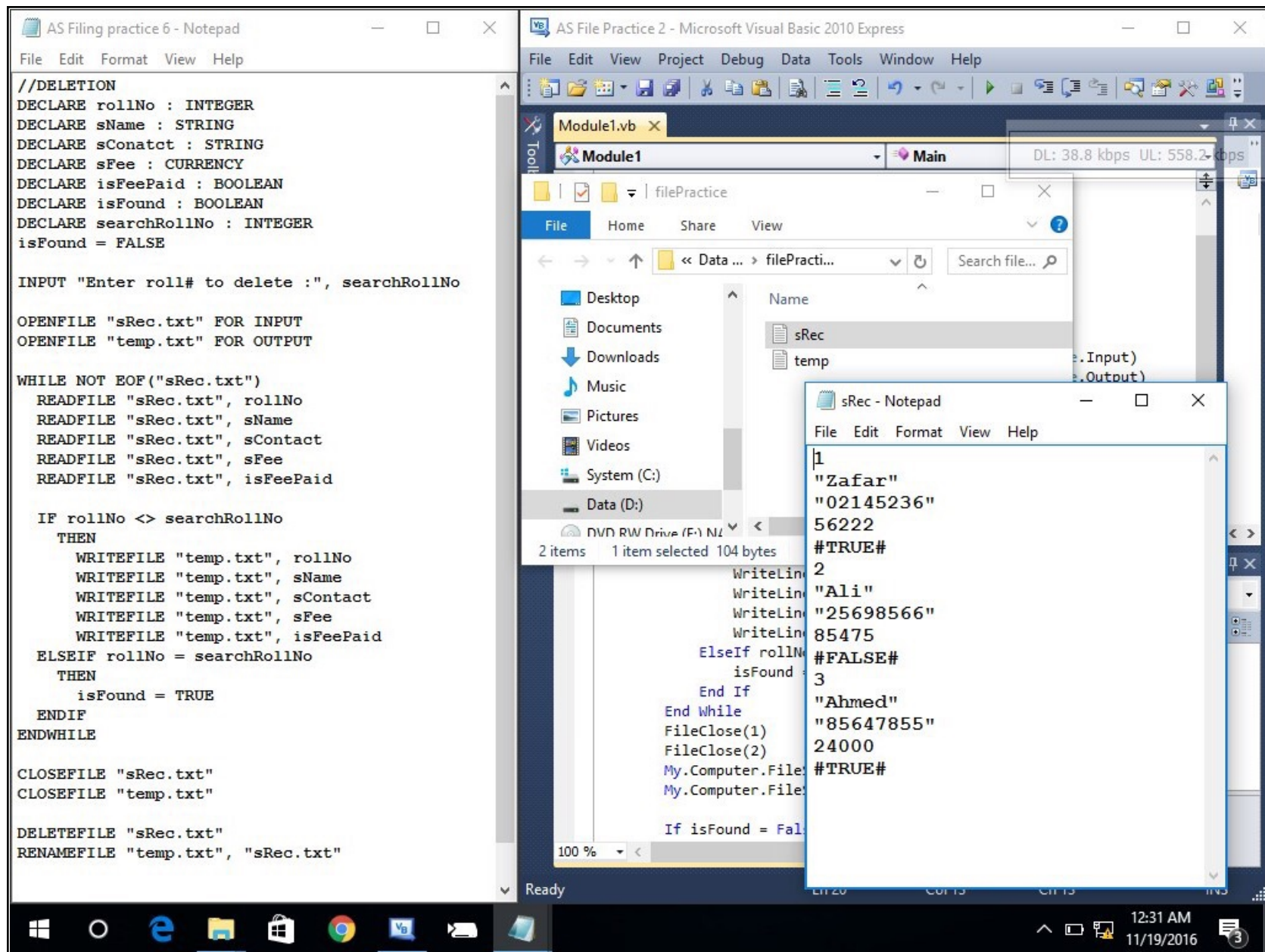
DELETEFILE "sRec.txt"
RENAMEFILE "temp.txt", "sRec.txt"
```

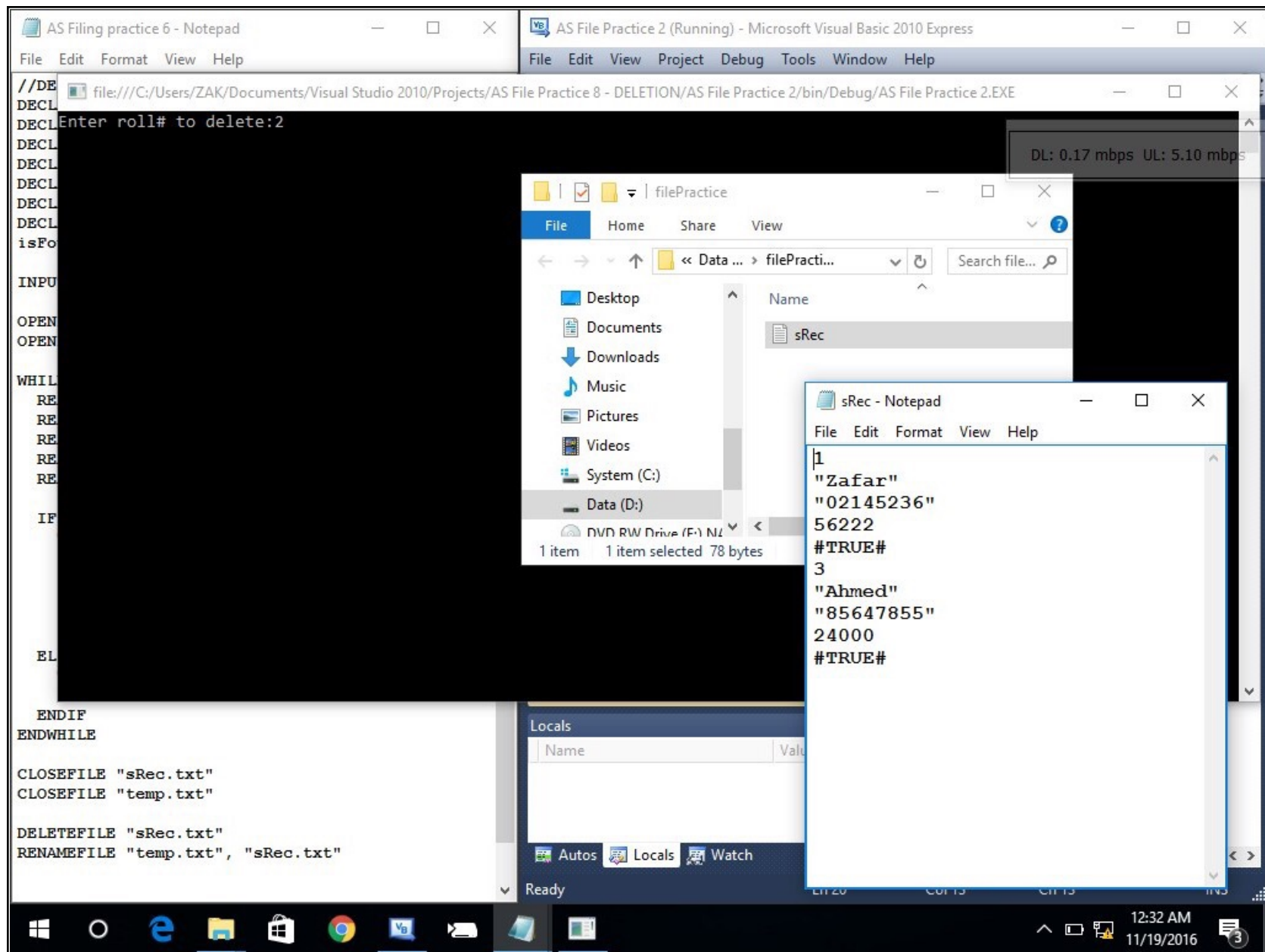
```
'File Record Deletion
Dim rollNo, searchRollNo As Integer
Dim sName, sContact As String
Dim sFee As Decimal
Dim isFeePaid, isFound As Boolean
isFound = False

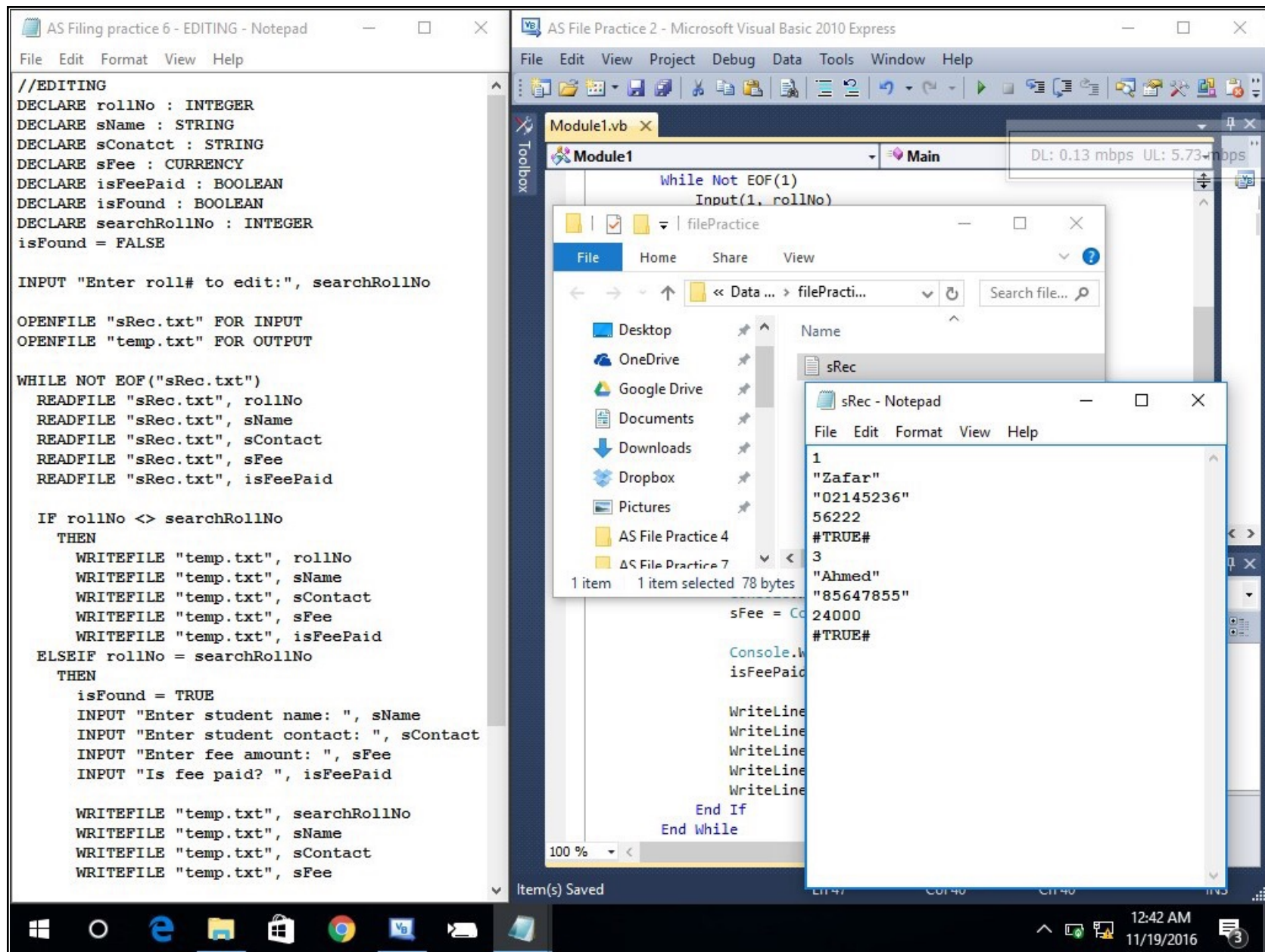
Console.WriteLine("Enter roll# to delete:")
searchRollNo = Console.ReadLine
FileOpen(1, "d:\filePractice\sRec.txt", OpenMode.Input)
FileOpen(2, "d:\filePractice\temp.txt", OpenMode.Output)

While Not EOF(1) And isFound = False
    Input(1, rollNo)
    Input(1, sName)
    Input(1, sContact)
    Input(1, sFee)
    Input(1, isFeePaid)
    If rollNo <> searchRollNo Then
        WriteLine(2, rollNo)
        WriteLine(2, sName)
        WriteLine(2, sContact)
        WriteLine(2, sFee)
        WriteLine(2, isFeePaid)
    ElseIf rollNo = searchRollNo Then
        isFound = True
    End If
End While
FileClose(1)
FileClose(2)
My.Computer.FileSystem.DeleteFile("d:\filePractice\sRec.txt")
My.Computer.FileSystem.RenameFile("d:\filePractice\temp.txt",
    "sRec.txt")

If isFound = False Then Console.WriteLine("Record not found...")
```








```
//ED
DECL
DECL Enter roll# to edit:3
DECL Enter student name:
DECL YAHYA
DECL Enter student contact: 987654321
DECL Enter fee amount: 852456
DECL Is fee paid? FALSE
isFo
INPU
OPEN
OPEN
WHIL
RE
RE
RE
RE
RE
IF
EL
INPUT "Enter student name: ", sName
INPUT "Enter student contact: ", sContact
INPUT "Enter fee amount: ", sFee
INPUT "Is fee paid? ", isFeePaid
WRITEFILE "temp.txt", searchRollNo
WRITEFILE "temp.txt", sName
WRITEFILE "temp.txt", sContact
WRITEFILE "temp.txt", sFee
```

Name	Value	Type
------	-------	------

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