

//PSEUDOCODE FOR:
//ADDING A RECORD TO THE FILE

```

DECLARE rollNo : INTEGER
DECLARE sName : STRING
DECLARE sContact : 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"

```

VB.NET Code:

```

Module1.vb
Module1
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)

```

The screenshot shows the Microsoft Visual Basic 2010 Express IDE. In the center, a code editor window titled "Module1.vb" contains VB code for reading student information from the console and writing it to a file. A file explorer window titled "filePractice" shows a new file named "sRec.txt" has been created. To the right, a Notepad window titled "sRec - Notepad" displays the contents of the file, which include student records for Zafar, Ali, and Asad.

```

Module1
    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)
Sub
    
```

New file created

Program is executed several times & data is written to it.

This screenshot compares pseudocode with Visual Basic code. On the left, a pseudocode section is annotated with circled numbers 1 through 6, corresponding to specific steps in the pseudocode. On the right, the equivalent Visual Basic code is shown, also annotated with circled numbers 1 through 6, mapping the pseudocode steps to the actual code execution. The pseudocode describes opening a file for input, reading each record sequentially, and then closing the file.

Pseudocode:

```

//PSEUDOCODE FOR:
//DISPLAY A SINGLE RECORD FROM FILE

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

OPENFILE "sRec.txt" FOR INPUT
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

CLOSEFILE "sRec.txt"
    
```

Visual Basic Code:

```

Module1
    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)

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

    Console.WriteLine("Student roll no. :" & rollNo)
    Console.WriteLine("Student name :" & sName)
    Console.WriteLine("Student contact :" & sContact)
    Console.WriteLine("Student fee amount :" & sFee)
    Console.WriteLine("Is Fee Paid? " & isFeePaid)

    FileClose(1)

    Console.ReadKey()
    
```

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

```

Module1.vb
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)

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

Console.WriteLine("Student roll no. :" & rollNo)
Console.WriteLine("Student name :" & sName)
Console.WriteLine("Student contact :" & sContact)
Console.WriteLine("Student fee amount :" & sFee)
Console.WriteLine("Is Fee Paid? " & isFeePaid)

FileClose(1)

```

DL: 0.37 mbps UL: 13.95 mbps

file:///C:/Users/ZAK/Documents/Visual Studio 2010/Projects/AS File Practice 4/AS File Practice 2/bin

```

Student roll no. :1
Student name :Zafar
Student contact :02145236
Student fee amount :56222
Is Fee Paid? True

```

Locals

Autos Locals Watch

Ready

115% 11:31 PM 11/18/2016

AS Filing practice 3 - Notepad

```

//PSEUDOCODE FOR:
//READING ALL RECORDS FROM FILE
//USING EOF() FUNCTION &
//WHILE...ENDWHILE LOOP

DECLARE rollNo : INTEGER
DECLARE sName : STRING
DECLARE sContact : STRING
DECLARE sFee : CURRENT
DECLARE isFeePaid : BOOLEAN

OPENFILE "sRec.txt" FOR INPUT
It works in advance for
    ne and ej file
before if reaches.
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"

WHILE Loop is pre-condition, i.e.
it checks first and performs
Later.

```

AS File Practice 2 - Microsoft Visual Basic 2010 Express

```

Module1.vb* 
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("Student roll no. :" & rollNo)
    Console.WriteLine("Student name :" & sName)
    Console.WriteLine("Student contact :" & sContact)
    Console.WriteLine("Student fee amount :" & sFee)
    Console.WriteLine("Is Fee Paid? " & isFeePaid)

End While

FileClose(1)

```

DL: 0.08 mbps UL: 2.71 mbps

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

```

Module1.vb
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("Student roll no. :" & rollNo)
    Console.WriteLine("Student name :" & sName)
    Console.WriteLine("Student contact :" & sContact)
    Console.WriteLine("Student fee amount :" & sFee)
    Console.WriteLine("Is Fee Paid? " & isFeePaid)

115 %
Locals
Autos Locals Watch
Ready
11:37 PM 11/18/2016

```

Output window:

```

file:///C:/Users/ZAK/Documents/Visual Studio 2010/Projects/AS File Practice 5/AS File Practice 5/AS File Practice 5.vb
Student roll no. :1
Student name :Zafar
Student contact :02145236
Student fee amount :56222
Is Fee Paid? True
Student roll no. :2
Student name :Ali
Student contact :025457896
Student fee amount :41000
Is Fee Paid? False
Student roll no. :3
Student name :Asad
Student contact :0214568966
Student fee amount :41000
Is Fee Paid? True

```

AS Filing practice 2 - Notepad

```

//PSEUDOCODE FOR:
//READING ALL RECORDS FROM FILE
//USING EOF() FUNCTION AND
//REPEAT...UNTIL CODE

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")
CLOSEFILE "sRec.txt"

```

Repeat loop performs first & checks later. It may crash if the file is empty.

AS File Practice 2 - Microsoft Visual Basic 2010 Express

```

Module1.vb*
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)

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

    Console.WriteLine("Student roll no. :" & rollNo)
    Console.WriteLine("Student name :" & sName)
    Console.WriteLine("Student contact :" & sContact)
    Console.WriteLine("Student fee amount :" & sFee)
    Console.WriteLine("Is Fee Paid? " & isFeePaid)

Loop Until EOF(1)

FileClose(1)

```

115 %

Ready Ln 31 Col 9 Ch 9 INS 11:56 PM 11/18/2016

```

//PSEUDOCODE FOR SEARCHING

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

INPUT "Enter roll# to search :", searchRollNo

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

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

CLOSEFILE "sRec.txt"

```

```

Module1.vb [X] Main [X]
Module1
Dim rollNo, searchRollNo As Integer
Dim sName, sContact As String
Dim sFee As Decimal
Dim isFeePaid As Boolean

Console.WriteLine("Enter roll # to search :")
searchRollNo = Console.ReadLine

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)

    If rollNo = searchRollNo Then
        Console.WriteLine("Student roll no. :" & rollNo)
        Console.WriteLine("Student name :" & sName)
        Console.WriteLine("Student contact :" & sContact)
        Console.WriteLine("Student fee amount :" & sFee)
        Console.WriteLine("Is Fee Paid? " & isFeePaid)
    End If
End While

FileClose(1)

```

```

DEC file:///C:/Users/ZAK/Documents/Visual Studio 2010/Projects/AS File Practice 7/AS File Practice 2/bin/Debug/AS File Practice 2.EXE
DEC Enter roll # to search :
DEC Student roll no. :2
DEC Student name :Ali
DEC Student contact :025457896
DEC Student fee amount :41000
Is Fee Paid? False
INPUT
OPEN
WHILE
    READ
    READ
    READ
    READ
    READ
    IF
        THEN
            PRINT
            PRINT
            PRINT
            PRINT
            PRINT
        END IF
    END WHILE
CLOSE

```

**USE OF FLAG
FOR OUTPUT OF
APPROPRIATE
MESSAGES AT
THE END OF
PROGRAM.**

- Previous record searching program technique doesn't tell the user if the record was not found. Since it is serial search it is impossible to know about the existence of the record, that's why we have to use a "flag".
 - FLAG: A variable, which initially set to FALSE and of Boolean data type and used as a switch that is changed during the execution of program to mark the change. For example when a record is found or deleted. Otherwise switch/flag remains false and towards the end of program is used to output appropriate msg to user for the status of operation like "record not found".



AS Filing practice 4 - Notepad

File file:///C:/Users/ZAK/Documents/Visual Studio 2010/Projects/AS File Practice 7/AS File Practice 2/bin/Debug/AS File Practice 2.EXE

/// Enter roll # to search :6

DEO
DEO
DEO
DEO
DEO
DEO

INP

OPN

WHI

F
F
F
F
F

J

System doesn't inform
if record is not found!

DL: 0.11 mbps UL: 3.78 mbps

```
        | End While
100 % < >
Locals
Name Value Type

```

OUTPUT "Fee amount: ", sFee
OUTPUT "Is fee paid? ", isFeePaid
ENDIF
ENDWHILE
CLOSEFILE "sRec.txt"

Ready Ln 38 Col 9 Ch 9 INS .

12:04 AM 11/19/2016

The screenshot shows two windows side-by-side. On the left is a Notepad window titled "AS Filing practice 5 - Notepad" containing pseudocode. On the right is a Microsoft Visual Studio 2010 Express window titled "AS File Practice 2 - Microsoft Visual Basic 2010 Express" showing the corresponding VB code.

Pseudocode (Notepad):

```

//PSEUDOCODE FOR SEARCHING
//WITH A MSG OF "NOT FOUND"

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 serch :", searchRollNo
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

    IF rollNo = searchRollNo
        THEN
            isFound = TRUE IF record is found make flag True.
            OUTPUT "Roll number: ", rollNo
            OUTPUT "Student name: ", sName
            OUTPUT "Student contact: ", sContact
            OUTPUT "Fee amount: ", sFee
            OUTPUT "Is fee paid? ", isFeePaid
    ENDIF
ENDWHILE
CLOSEFILE "sRec.txt"
IF isFound = FALSE THEN OUTPUT "Not found..." Check towards the end of program that flag is still false; that indicates that record was never found.

```

VB Code (Visual Studio):

```

Module1.vb* X Main DL: 0.05 mbps UL: 1.11 mbps
Module1
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 number to search for :")
searchRollNo = Console.ReadLine()
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)

    If rollNo = searchRollNo Then
        isFound = True
        Console.WriteLine("Student roll no. :" & rollNo)
        Console.WriteLine("Student name :" & sName)
        Console.WriteLine("Student contact :" & sContact)
        Console.WriteLine("Student fee amount :" & sFee)
        Console.WriteLine("Is Fee Paid? " & isFeePaid)
    End If
End While
FileClose(1)

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

Console.ReadKey()

```

The screenshot shows the Microsoft Visual Studio 2010 Express interface with the application running. The top status bar shows "AS File Practice 2 (Running) - Microsoft Visual Basic 2010 Express".

Output Window:

```

//P file:///C:/Users/ZAK/Documents/Visual Studio 2010/Projects/AS File Practice 7/AS File Practice 2/bin/Debug/AS File Practice 2.EXE
//W Enter roll number to search for :6
Record not found.

```

Handwritten Note:

System now outputs appropriate message if record is not found!

Code (Bottom Left):

```

DEC
DEC
DEC
DEC
DEC
DEC
isF
INP
OPE
WHI
R
R
R
R
R
I

OUTPUT "STUDENT contact: ", sContact
OUTPUT "Fee amount: ", sFee
OUTPUT "Is fee paid? ", isFeePaid
ENDIF
ENDWHILE

CLOSEFILE "sRec.txt"

IF isFound = FALSE THEN OUTPUT "Not found..."
```

Locals Window (Bottom Right):

Name	Type

Stop searching continuously if record is already found:

- If we are searching for a roll number and it is already found before the end of file occurs then there is no need to search for further records.
- This continuous search is only feasible when the search criteria is not based on key fields like roll numbers; rather we are searching for all students who have paid the fee or bear 'A' grade etc.
- To avoid parsing the file even if the record is found we will amend the condition in while loop by adding "AND isFound = False".
- This will make system to keep reading file until:
 - a. EOF() is False
 - b. isFound = False



AS Filing practice 5 - Notepad

```
//PSEUDOCODE FOR SEARCHING
//WITH A MSG OF "NOT FOUND"

DECLARE rollNo : INTEGER
DECLARE sName : STRING
DECLARE sContact : STRING
DECLARE sFee : CURRENCY
DECLARE isFeePaid : BOOLEAN
DECLARE isFound : BOOLEAN
DECLARE searchRollNo : INTEGER
isFound = FALSE

INPUT "Enter roll# to search :", searchRollNo
OPENFILE "sRec.txt" FOR INPUT

WHILE NOT EOF("sRec.txt") AND isFound=FALSE
  READFILE "sRec.txt", rollNo
  READFILE "sRec.txt", sName
  READFILE "sRec.txt", sContact
  READFILE "sRec.txt", sFee
  READFILE "sRec.txt", isFeePaid
  IF rollNo = searchRollNo
    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
  ENDWHILE

CLOSEFILE "sRec.txt"

IF isFound = FALSE THEN OUTPUT "Not found..."
```

AS File Practice 2 - Microsoft Visual Basic 2010 Express

```
Module1.vb
```

```
Module1
```

```
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 number to search for :")
searchRollNo = Console.ReadLine()
FileOpen(1, "d:\filePractice\sRec.txt", OpenMode.Input)
|
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
    isFound = True
    Console.WriteLine("Student roll no. :" & rollNo)
    Console.WriteLine("Student name :" & sName)
    Console.WriteLine("Student contact :" & sContact)
    Console.WriteLine("Student fee amount :" & sFee)
    Console.WriteLine("Is Fee Paid? " & isFeePaid)
  End If
End While
FileClose(1)

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

Console.ReadKey()
```

we use this condition to avoid looping through the whole file even the record is found.

SERIAL / SEQUENTIAL FILE DELETION:

- For deletion at first user enters the key field value of the record to be deleted.
- Algorithm would be mostly based on searching method
- Two files will be used since deletion of record from a serial file is not possible.
- One file will be read and all of the records will be appended to the other file except the one that matches the input key field and required to be deleted.

File A → File B

Record to be deleted.

- All records from file A will be copied to file B except one that is required to be deleted
- File A will be deleted, and
- File B will be renamed to File A.
- A "flag" will be used to notice record deletion & appropriate msg to the user.

Zak ZAFAR ALI KHAN

```

//DELETION
DECLARE rollNo : INTEGER
DECLARE sName : STRING
DECLARE sContact : 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"

```

```

Module1.vb X Main DL: 27.4 kbps UL: 697.4 kbps
'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)
    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... ")

```

AS Filing practice 6 - Notepad

```
//DELETION
DECLARE rollNo : INTEGER
DECLARE sName : STRING
DECLARE sContact : 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"
RENAMFILE "temp.txt", "sRec.txt"
```

AS File Practice 2 - Microsoft Visual Basic 2010 Express

Module1.vb

```
Main
DL: 38.8 kbps UL: 558.2 kbps
```

filePractice

Name

- Desktop
- Documents
- Downloads
- Music
- Pictures
- Videos
- System (C:)
- Data (D:)
- DVD RW Drive (F:) N

2 items 1 item selected 104 bytes

1 "Zafar"
"02145236"
56222
#TRUE#
2 "Ali"
"25698566"
85475
#FALSE#
3 "Ahmed"
"85647855"
24000
#TRUE#

↓ This record will be deleted.

File Edit Format View Help

12:31 AM 11/19/2016

AS Filing practice 6 - Notepad

```
//DELETION
DECLARE Enter roll# to delete:2
DECLARE
DECLARE
DECLARE
DECLARE
isFound = FALSE

INPUT
OPEN
OPEN

WHILE
    READ
    READ
    READ
    READ
    READ

    IF
        THEN
            WRITEFILE "temp.txt", rollNo
            WRITEFILE "temp.txt", sName
            WRITEFILE "temp.txt", sContact
            WRITEFILE "temp.txt", sFee
            WRITEFILE "temp.txt", isFeePaid
    ELSE
        THEN
            isFound = TRUE
    ENDIF
ENDWHILE

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

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

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

Module1.vb

```
Main
DL: 0.17 mbps UL: 5.10 mbps
```

filePractice

Name

- Desktop
- Documents
- Downloads
- Music
- Pictures
- Videos
- System (C:)
- Data (D:)
- DVD RW Drive (F:) N

1 item 1 item selected 78 bytes

1 "Zafar"
"02145236"
56222
#TRUE#
3 "Ahmed"
"85647855"
24000
#TRUE#

Locals

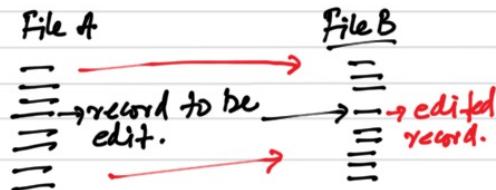
Name	Value
Autos	
Locals	
Watch	

File Edit View Project Debug Tools Window Help

12:32 AM 11/19/2016

**EDITING A RECORD
IN A SERIAL OR
SEQUENTIAL FILE**

- We will use almost the same technique as file record deletion, but
- instead of skipping the record to copy in next file, we will ask user to update fields and copy the updated record to the next file.
- remember not to let user update the key field.



Then, delete fileA and rename fileB to fileA.



```

//EDITING
DECLARE rollNo : INTEGER
DECLARE sName : STRING
DECLARE sContact : STRING
DECLARE sFee : CURRENCY
DECLARE isFeePaid : BOOLEAN
DECLARE isFound : BOOLEAN
DECLARE searchRollNo : INTEGER
isFound = FALSE

INPUT "Enter roll# to edit:", 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
            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

```

```

//ED file:///C:/Users/ZAK/Documents/Visual Studio 2010/Projects/AS File Practice 8 - EDITING/AS File Practice 2/bin/Debug/AS File Practice 2.EXE
File Edit View Project Data Tools Window Help
File Edit View Project Debug Data Tools Window Help
//ED
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
isFeePaid = FALSE

INPUT "Enter roll# to edit:", searchRollNo
OPENFILE "temp.txt" FOR INPUT
OPENFILE "sRec.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
            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
    END IF
    Writeln("sRec - Notepad")
    Writeln("i")
    Writeln("Zafar")
    Writeln("02145236")
    Writeln("56222")
    Writeln("#TRUE#")
    Writeln("3")
    Writeln("YAHYA")
    Writeln("987654321")
    Writeln("852456")
    Writeln("#FALSE#")
    Writeln("Console.WriteLine")
    Writeln("isFeePaid")
    Writeln("Writeln")
    Writeln("Writeln")
    Writeln("Writeln")
    Writeln("Writeln")
    Writeln("End If")
    Writeln("End While")
END

```

```

//EDITING
DECLARE rollNo : INTEGER
DECLARE sName : STRING
DECLARE sContact : STRING
DECLARE sFee : CURRENCY
DECLARE isFeePaid : BOOLEAN
DECLARE isFound : BOOLEAN
DECLARE searchRollNo : INTEGER
isFound = FALSE

INPUT "Enter roll# to edit:", 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
            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
    END IF
    Writeln("sRec - Notepad")
    Writeln("i")
    Writeln("Zafar")
    Writeln("02145236")
    Writeln("56222")
    Writeln("#TRUE#")
    Writeln("3")
    Writeln("YAHYA")
    Writeln("987654321")
    Writeln("852456")
    Writeln("#FALSE#")
    Writeln("Console.WriteLine")
    Writeln("isFeePaid")
    Writeln("Writeln")
    Writeln("Writeln")
    Writeln("Writeln")
    Writeln("Writeln")
    Writeln("End If")
    Writeln("End While")
END

```

File handling Assignment - Microsoft Word (Product Activation Failed)

Text File handling Assignment
A text file is to be used to store the following membership information for a sports club:
• Name
• Member ID number
Key focus: Text files

Task 1.1 Write program code to create a text file containing membership data for a number of sports club members. The user will input data for several members. The program will save each data item on a new line of the file.

Task 1.2 Write program code to output the file contents.

Task 1.3 Write program code to search for a member name input by the user. If the name is found, output the corresponding ID number. If the name is not found, output a suitable message. Ensure that the search is not case sensitive.

Task 1.4 New members have joined the club. Extend your program code to allow the new members' data to be added to the file.
Extension task

Task 1.5 The club needs to save additional information:
• telephone number
• membership start date

Write new program code to:
• read the data from the original file for one member
• prompt the user to input the two additional data items
• save all the data for the current member in a new file
• repeat the above steps for each member in the original file

Zak ZAFAR ALI KHAN

ID = 3563

Indexed sequential

index

Header

300
201
301
202

Serial

Random

Zak ZAFAR ALI KHAN