**PRACTICAL # 13**

**OBJECT:**

Working with files in assembly.

**THEORY:**

The files are system resource. There are different types of files in a system like text files, binary files, application files.

The program below opens a text file and writes text into it.

**Program:**

.model small

.stack 100h

.data

NewLine DB 10, 13, '$'

Msg DB 'ENTER SOME DATA IN THE FILE$'

FILENAME DB 'HELLO.txt'

BUFFER DB 22 DUP(0) ;buffer for user input

Err DB 'ERROR IN FILE HANDLING$'

.code

main proc

MOV AX, DATA

MOV DS, AX

;input text from user

;MOV BUFFER, 20

;MOV AH,0AH

;MOV DX,OFFSET BUFFER

;INT 21H

;open file for writing

MOV AH, 3CH

MOV CX, 0

MOV DX, OFFSET FILENAME

INT 21H

MOV BX, AX

MOV AH, 40H

MOV CX, 28

MOV DX, OFFSET Msg ; BUFFER

INT 21H

JC ERROR

JMP EXIT

**ERROR:**

MOV DX, OFFSET Err

MOV AH, 09

INT 21H

**EXIT:**

MOV AH, 4CH

INT 21H

main endp

end main

The above program writes text in a text file.

**ACTIVITIES**

**Activity 1**

Get a user input string and save the text in file.

**Activity 2**

Get current system date and time and save that in a new file.

**REVIEW QUESTIONS**

1. How is a new file opened?
2. What will be the result if a read only file is opened for writing?
3. Which interrupt number is used for writing text file?
4. What possible error conditions can be for writing files?