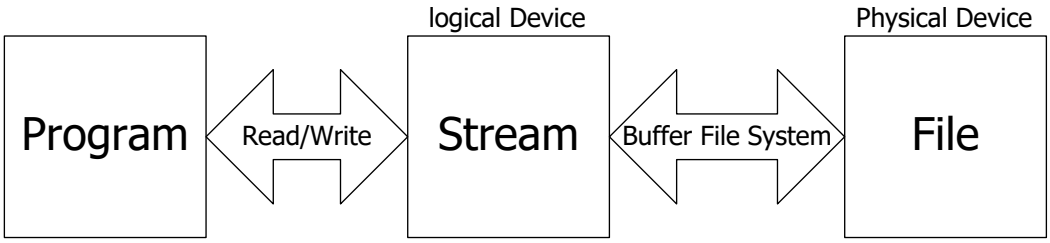
LAB 9 : Standard File Operations



Let's start by try to open any text file.

```
FILE  *file_pointer;
file_pointer = fopen("sample.txt","r");
```

If there is no such file to open, display the error message.

```
If (file_pointer == NULL)    {
        printf("Error in opening file");
        return(-1);   }
```

Read a character from the file.

```
char ch;
ch = fgetc(file_pointer);
```

Read all character from start to end of file

```
do   {        ch = fgetc(file_pointer);
              printf("%c", ch);
 }   while( ! feof(file_pointer) );
```

Read X Y and C from a line until the end of file

```
int X,Y;    char C;
do   {        fscanf(file_pointer, ”%d %d %c\n”, &X, &Y, &C);
 }   while( ! feof(file_pointer) );
```

Close file when it is done.

```
close(file_pointer);
```

Open File Lab

1 GET DATA FILES FROM FACEBOOK

Download a data10 file from the class group Facebook. Add .zip to the end of file. Then, unzip it. Copy all text file to your working directory.

2 READ FROM A FILE

Write a program to read from a data file (starting with “test01.txt”).

3 USE *FSCANF()* TO READ ALL LINES FROM THE TEXT FILE

Use fscanf() function to read from the text file, line by line until the end of file. Each line consists of 3 variables: there are position X, position Y, and character C. You should keep these data (3 variables) in forms of array of 8000.

int X[8000]; int Y[8000]; char C[8000];

4 USE *GOTOXY()* TO SHOW THE FINAL RESULT

After you read all data lines, use all data to display the character C on the position X and position Y by using function **gotoxy(X,Y)** then print a character **C**.

```
#include <windows.h>

COORD coord={0,0}; // this is global variable
                        //center of axis is set to the top left cornor of the screen
 void gotoxy(int x,int y)
 {
   coord.X=x;
   coord.Y=y;
   SetConsoleCursorPosition(GetStdHandle(STD_OUTPUT_HANDLE),coord);
 }
```

```
    system("cls");
    system("COLOR F1");
```