1. Display contents of a given file (use char input function)

```c
#include<stdio.h>
#include<conio.h>

void main()
{
    FILE *fp;
    char ch;
    char nm[20];
    clrscr();
    printf("Enter a file name :");
    gets( nm );

    fp = fopen( nm , "r");
    if( fp != NULL )
    {
        ch = fgetc( fp );
        while( ch != EOF )
        {
            printf("%c", ch );
            ch = fgetc( fp );
        }
        fclose(fp);
    }
    else
        printf("File not found");

    getch();
}
```

2. Display contents of a given file (use String input function)

```c
#include<stdio.h>
#include<conio.h>
void main()
{
    FILE *fp;
    char line[80];
    char nm[20];
    clrscr();
    printf("Enter a file name :");
    gets( nm );

    fp = fopen( nm , "r");
    if( fp != NULL )
    {
        while( fgets( line, 80, fp ) != NULL )
        {
            printf("%s", line );
        }
        fclose(fp);
    }
    else
        printf("File not found");
    getch();
}
```

3. Copy contents of one file to another

```c
#include<stdio.h>
#include<conio.h>
void main()
{
    FILE *fr, *fw;
    char ch;
    char src[20], dest[20];
    clrscr();
    printf("Enter a source file name :");
    gets( src );
    fr = fopen( src , "r"); // open source file for reading
    if( fr != NULL )  // if the file exists
    {
        printf("Enter a Destn.e file name :");
        gets( dest );
        fw = fopen( dest , "w");  // open destn. file for writing
        ch = fgetc( fr );
        while( ch != EOF )  // repeat till end of file
        {
            fputc( ch, fw ); // copy char into destn file
            ch = fgetc( fr ); // read char from source file
        }
        fclose(fr);
        fclose(fw);
        printf("File contents copied..");
    }
    else
        printf("Source File not found");

    getch();
}
```

Enroll for SE Sem III subjects...

Comp/ IT – Data Struct., Java, DBMS etc.
Civil/Mech - SOM, FM, ATD etc
Elex/Extc – EDC, CTL , AE etc
   & **Maths 3**

100 % Results !!!

4. Copy contents of one file to another by converting lowercase letters to uppercase and uppercase letters to lowercase   [M-2016]

```c
#include<stdio.h>
#include<conio.h>
void main()
{
    FILE *fr, *fw;
    char ch;
    char src[20], dest[20];
    clrscr();
    printf("Enter a source file name :");
    gets( src );
    fr = fopen( src , "r"); // open source file for reading
    if( fr != NULL )  // if the file exists
    {
        printf("Enter a Destn. file name :");
        gets( dest );
        fw = fopen( dest , "w");  // open destn. file for writing
```

```
        ch = fgetc( fr );
        while( ch != EOF )
        {
            // convert char to upper or lowercase
            if( ch >= 'a' && ch<= 'z' )
                ch = toupper( ch);
            else if( ch >='A' && ch<= 'Z' )
                ch = tolower( ch );

            fputc( ch, fw );  // copy char into destn file
            ch = fgetc( fr ); // read char from source file
        }
        fclose(fr);
        fclose(fw);
        printf("File contents copied..");
    }
    else
        printf("Source File not found");

    getch();
}
```

5. Count number of words in a file

```
#include<stdio.h>
#include<conio.h>
void main()
{
    FILE *fp;
    char ch, ch1;
    char nm[20];
    int w=0; // counter for words
    int f = 0;
    clrscr();
    printf("Enter a file name :");
    gets( nm );

    fp = fopen( nm , "r");
    if( fp != NULL )
    {
        ch = fgetc( fp );
        while( ch != EOF )
        {
            if( ch == ' ' || ch == '\n' || ch == 9 )
                f = 0;
            else if ( f == 0  && ( ch != ' ' && ch != '\n' && ch != 9 ) ) // if 1st char of word is read
            {
                f = 1;
                w++;
            }

            ch = fgetc( fp );
        }
        fclose(fp);
        printf("No. of Words = %d", w );
    }
```

```
        else
            printf("File not found")
        getch();
}
```

**6. Write data for n employees (no, name salary) into a file emp.dat.
    Then display employee data for a given emp.no**

```c
#include<stdio.h>
#include<conio.h>
struct  Employee  // struct. Definition for Employee data
{
    int no;
    char name[30];
    int sal;
};
void  main()
{
    struct Employee  a;  // struct. to hold 1 emp data
    FILE *fp;
    int i, n, no;
    clrscr();
    fp = fopen( "emp.dat" , "w");  // open file for writing
    printf("How many emp data:");
    scanf("%d", &n );
    printf("\nEnter employee info.\n");
    for(i=1; i<=n; i++ )  // for n times
    {
        printf("Enter no, name, salary\n");
        scanf("%d", &a.no);   // ip emp data
        fflush(stdin);
        gets( a.name );
        scanf("%d", &a.sal );
        fflush(stdin);
        fwrite( &a, sizeof(struct Employee), 1, fp );  // write emp data to file
    }
    fclose( fp );  //close file

    fp = fopen("emp.dat", "r");  // open the file again, for reading
    printf("\n\nEnter emp no :");  // input no to search
    scanf("%d", &no );
    for( i=1; i<=n; i++ )
    {
        fread( &a, sizeof(struct Employee) , 1, fp);  // read next emp data from file
        if( a.no == no )  // check the emp.no
        {
            printf("Emp name=%s\n", a.name);
            printf("Salary =%d\n", a.sal );
            break;  // stop loop
        }
    }
    if( i > n )
        printf("Emp. data not found");

    fclose(fp);
    getch();
}
```

======