

MODULE 6 FILE PROGRAM SET -1**Write a line to sample.txt and display**

```

//Enter contents in a file and Display the contents
#include<stdio.h>
main()
{
    char c;
    FILE *f;
    f=fopen("Sample.txt","w");
    printf("Enter contents to file. Type * to stop\n");
                                //Type a line and press enter key
    c=getchar();                //Read first letter and store in c
    while(c!='\n')              //if c is not \n(enter key)
    {
        putchar(c,f);           //store the value of c in f (that points to file sample.txt)
        c=getchar();            //Read next letter and store in c
    }
    fclose(f);

    f=fopen("Sample.txt","r");
    if(f1==0)                    //or if(!f1) (Here if f1 is 0 f1 is 1 then this is true)
    {    printf("File does not exist");
    }
    else
    {
        printf("\ncontents in file \n");
        c=getc(f);                //Read first letter from file sample.txt and store in c
        while(c!=EOF)            //    if c is not end of file character
        {
            putchar(c);          //print the value of c in screen
            c=getc(f);            //Read next letter from file sample.txt and store in c
        }
        fclose(f);
    }
}

```

Write contents to sample.txt and display

*//Enter contents through keyboard and store in a file until * is seen. and Display the contents*

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

```
main()
```

```
{
```

```
    char c;
```

```
    FILE *f;
```

```
    f=fopen("Sample.txt","w");
```

```
    printf("Enter contents through keyboard to store in file. Type * to stop\n");
```

```
    c=getchar();
```

```
    while(c!='*')
```

```
    {
```

```
        putc(c,f);
```

```
        c=getchar();
```

```
    }
```

```
    fclose(f);
```

```
    f=fopen("Sample.txt","r");
```

```
    if(f1==0)           //or if(!f1) Here if f1 is 0 f1 is 1 then this is true
```

```
    {    printf("File does not exist");
```

```
    }
```

```
    else
```

```
    {
```

```
        printf("\ncontents in file \n");
```

```
        c=getc(f);
```

```
            while(c!=EOF)
```

```
            {
```

```
                putchar(c);
```

```
                c=getc(f);
```

```
            }
```

```
        fclose(f);
```

```
    }
```

```
}
```

//COPY contents from sample.txt to output.txt//create sample.txt and fill it with contents

#include<stdio.h>

main()

{

char c;

FILE *f1,*f2;

f1 = fopen("sample.txt","r");

f2 = fopen("Output.txt","w");

 if(f1==0) *//or if(!f1) Here if f1 is 0 f1 is 1 then this is true*

{ printf("File does not exist");

}

else

{

c=getc(f1);

while(c!=EOF)

{

putc(c,f2);

c=getc(f1);

}

}

fclose(f1);

fclose(f2);

}

//MERGE contents from sample.txt and abc.txt to output.txt

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

```
main()
```

```
{
```

```
    char c;
```

```
    FILE *f1,*f2,*f3;
```

```
    f1 = fopen("sample.txt","r");
```

```
    f2 = fopen("abc.txt","r");
```

```
    f3 = fopen("Output.txt","w");
```

```
    if(f1==0 || f2==0)
```

```
        //or if(!f1) Here if f1 is 0 f1 is 1 then this is true
```

```
    {    printf("File does not exist");
```

```
    }
```

```
    else
```

```
    {
```

```
        c=getc(f1);
```

```
        while(c!=EOF)
```

```
        {
```

```
            putc(c,f3);
```

```
            c=getc(f1);
```

```
        }
```

```
        c=getc(f2);
```

```
        while(c!=EOF)
```

```
        {
```

```
            putc(c,f3);
```

```
            c=getc(f2);
```

```
        }
```

```
    }
```

```
    fclose(f1);
```

```
    fclose(f2);
```

```
    fclose(f3);
```

```
}
```

Read contents from a sample.txt file and
Convert lowercase into uppercase and write into another file upsample.txt

```
#include<stdio.h>

intmain()
{
    char c;
    FILE *f1,*f2,*f3;
    clrscr();

    f1 = fopen("sample.txt","r");
    f2 = fopen("upsample.txt","w");

    if(f1==0 ) //or if(!f1) Here if f1 is 0 f1 is 1 then this is true
    {    printf("File does not exist");

        }

    else
    {
    c=getc(f1);
        while(c!=EOF)
        {
            putchar(toupper(c),f2);

            c=getc(f1);
        }
    }

    fclose(f1);
    fclose(f2);
    fclose(f3);

}
```

Sort and store numbers in another file

Write a C program to read a set of numbers from an input file value.dat and store the sorted numbers in an output file sorted.dat

```

#include<stdio.h>
main()
{
    int n,num,a[100],b[100];
    FILE *f1,*f2;
    int i,j,temp;

    f1 = fopen("value.dat","w");

    printf("\nEnter how many numbers\n");
    scanf("%d",&n);

    printf("\nEnter numbers to store in value.dat\n");
    for(i=0;i<n;i++)
    {
        scanf("%d",&a[i]);
        putw(a[i],f1);
    }

    fclose(f1);

    f1 = fopen("value.dat","r");
    f2 = fopen("sorted.dat","w");
    if(f1==0 ) //or if(!f1) Here if f1 is 0 then !f1 is 1 then this is true
    {
        printf("File does not exist");
    }
    else
    {
        num=getw(f1);
        i=0;
        printf("\nNumber stored in value.dat are \n");
        while(num!=EOF)
        {
            b[i]=num;
            printf("%dt",num);
            num=getw(f1);
            i=i+1;
        }
    }
}

```

```

printf("\nBUBBLE SORT\n");

for(i=0;i<=n-2;i++)
{
    for(j=0; j<=n-2-i; j++)
    {
        if(b[j]>b[j+1])
        {
            temp=b[j];
            b[j]=b[j+1];
            b[j+1]=temp;
        }
    }
}

printf("Writing sorted array b in sorted.dat file");
for(i=0;i<n;i++)
{
putw(b[i],f2);
}
fclose(f1);
fclose(f2);

f2 = fopen("sorted.dat","r");

if(f2==0 ) //or if(!f1) Here if f1 is 0 f1 is 1 then this is true
{
    printf("File does not exist");
}
else
{
    num=getw(f2);
    i=0;
    printf("Number stored is ");

    while(num!=EOF)
    {
        printf("\n%d\t",num);
        num=getw(f2);
    }

    fclose(f2);
}

```

Count the number of vowels in a file

```

#include<stdio.h>
#include<ctype.h>
intmain()
{
    char c;
    FILE *f1;
    int vow=0;
    f1=fopen("sample.txt","r");
if(f1==0)
{    printf("File does not exist");
}
else
{
c=getc(f1);
while(c!=EOF)
{

if(strcmp(toupper(c),'A')==0||strcmp(toupper(c),'E')==0||strcmp(toupper(c),'I')==0||strcmp(toupper
r(c),'O')==0||strcmp(toupper(c),'U')==0)
        { vow=vow+1;
        }
c=getc(f1);
        }
        fclose(f1);

printf("\nNumber of vowels=%d",vow);
}

```


Store information about a student in file

such as name and rollno(use structure)

//STORE STUDENT DETAILS IN A FILE studstr.txt and display

#include<stdio.h>

#include<ctype.h>

struct student

{

introllno;**char name[20];**

};

intmain()

{

struct student s,s1;

inti,n;

FILE *f1;

f1=fopen("studstr.txt","w");

printf("Enter how many students");

scanf("%d",&n);

for(i=0;i<n;i++)

{

printf("\nEnter roll number and name");

scanf("%d %s",&s.rollno,s.name);

fwrite(&s, sizeof(struct student), 1, f1) ;

}

fclose(f1);

f1=fopen("studstr.txt","r");

fread(&s1, sizeof(struct student),1, f1) ;

while(!feof(f1))

{

printf("\nrollno=%d name=%s",s1.rollno,s1.name);

fread(&s1, sizeof(struct student), 1, f1) ;

}

fclose(f1);

}