



## Creating a TEXT file

```
void Create()
```

```
{
    ofstream Fil;
    Fil.open("DIARY.TXT",ios::out);
    char Lin[80],Q;
    do
    {
        cout<<"Enter Text";gets(Lin); //User inputs the data in a string Lin
        Fil<<Lin<<endl;                //Writing of content of Lin on file
        cout<<"More (Y/N) ?";cin>>Q;
    }
    while (Q=='Y');
    Fil.close();
}
```

Alternative\*

```
ofstream Fil("DIARY.TXT");
```

Opening a file in 'out' Mode\*  
(Deletes/Overwrites the earlier content, if present)

DIARY.TXT

Hello my dear computer  
I will save this  
Text on to the hard disk



USER

Lin

Text on the hard disk

gets(Lin);

1

2

F<<Lin<<endl;

## Displaying the content from TEXT File

```
void Display()
```

```
{
    ifstream Fil;
    Fil.open("DIARY.TXT",ios::in);
    char Lin[80];
    while (Fil.getline(Lin,80))
        cout<<Lin<<endl;
    Fil.close();
}
```

Alternative\*\*

```
ifstream Fil("DIARY.TXT");
```

Opening a file in 'in' Mode\*\*

//Reads a line/checks for end of file  
//Displays a line of text

DIARY.TXT

Hello my dear computer  
I will save this  
Text on to the hard disk

1  
Fil.getline(Lin,80)

Lin

Hello my dear computer

2  
cout<<Lin<<endl;

USER



## Reading a character from a text file

Ch=Fil.get()

C

B

Fil>>WRD;

Reading a word at a time from a text file

## Reading a line from a text file

Fil.getline(String,80)

A

Checking end of file

while (!Fil.eof())

Sample operations that can be performed on a text file opened in 'in' mode

- Reading and displaying the entire content of file
- Reading each word and displaying them in different lines
- Reading each character and checking, if it is a Vowel or a Consonant



### Reading each word and displaying on different lines

```
void WordDisplay()
{
    fstream Fil;
    Fil.open("DIARY.TXT",ios::in);
    char WORD[40];
    Fil>>WORD;           //Reading a word from File
    while (!Fil.eof())//Checks for End of File
    {
        cout<<WORD<<endl;
        Fil>>WORD;       //Reading a word from File
    }
    Fil.close();
}
```

### Reading and counting the no. of words

```
int CountWord()
{
    fstream Fil;
    Fil.open("DIARY.TXT",ios::in);
    char WORD[40]; int CW=0;
    Fil>>WORD;           //Reading a word from File
    while (!Fil.eof())//Checks for End of File
    {
        CW++;
        Fil>>WORD;       //Reading a word from File
    }
    Fil.close();
    return CW;           ← (c-1)?
}
```

### Reading each word, reversing and displaying

```
void ReverseWord()
{
    fstream Fil;
    Fil.open("DIARY.TXT",ios::in);
    char WORD[40];
    Fil>>WORD;           //Reading a word from File
    while (!Fil.eof())//Checks for End of File
    {
        for (int I=strlen(WORD)-1;I>=0;I--)
            cout<<WORD[I];
        cout<<endl;
        Fil>>WORD;       //Reading a word from File
    }
    Fil.close();
}
```

*fil>>w;  
strlen(w);  
cout<<w;  
cout<<endl;*

### Reading each line, reversing and displaying

```
void ReverseLine()
{
    fstream Fil;
    Fil.open("DIARY.TXT",ios::in);
    char Lin[80];
    while (Fil.getline(Lin,80))
    {
        for (int I=strlen(Lin)-1;I>=0;I--)
            cout<<Lin[I];
        cout<<endl;
    }
    Fil.close();
}
```

*strlen(Lin);  
cout<<Lin;  
cout<<endl;*

### Counting number of vowels and consonants

```
void VowelCount()
{
    fstream Fil;
    Fil.open("DIARY.TXT",ios::in);
    char Ch;
    int NV=0,NC=0;
    while (!Fil.eof())//Checks for End of File
    {
        Ch=Fil.get(); //Reading a character from File
        if (isalpha(Ch))
        {
            Ch=toupper(Ch);
            if (Ch=='A' || Ch=='E' || Ch=='I' || Ch=='O' || Ch=='U')
                NV++;
            else
                NC++;
        }
    }
    cout<<"Vowels      : "<<NV<<endl;
    cout<<"Consonants: "<<NC<<endl;
    Fil.close();
}
```

### Adding new lines at the bottom of the file

```
void AddAtEnd()
{
    fstream Fil;
    Fil.open("DIARY.TXT",ios::app);

    char Lin[80],Q;

    do
    {
        cout<<"Enter Text";
        gets(Lin);
        Fil<<Lin<<endl;
        cout<<"More (Y/N) ?";
        cin>>Q;
    }
    while (Q=='Y');

    Fil.close();
}
```

Opening a file in Append 'app' Mode  
(Moving file write pointer at the bottom  
of the file without deleting the earlier  
content)

|   |   |
|---|---|
| <p>Reading and checking count presence of a particular word in a text file</p> <pre> void CountIndia() {     fstream Fil;     Fil.open("DIARY.TXT",ios::in);     char WORD[40];int C=0;     Fil&gt;&gt;WORD;        //Reading a word from File     while (!Fil.eof())//Checks for End of File     {         if (strcmpi(WORD,"India")==0)             C++;         Fil&gt;&gt;WORD;     }     Fil.close();     cout&lt;&lt;"Count of India"&lt;&lt;C&lt;&lt;"Times"&lt;&lt;endl; } </pre> | <p>Reading and displaying all those words, which start with 'T' or 't'</p> <pre> void DisplayTWords() {     fstream Fil;     Fil.open("DIARY.TXT",ios::in);     char WORD[40];     Fil&gt;&gt;WORD;        //Reading a word from File     while (!Fil.eof())//Checks for End of File     {         if (WORD[0]=='T'    WORD[0]=='t')             cout&lt;&lt;WORD&lt;&lt;endl;         Fil&gt;&gt;WORD;        //Reading a word from File     }     Fil.close(); } </pre> |
| <p>Reading and displaying all those lines, which start with 'T' or 't'</p> <pre> void DisplayTLines() {     fstream Fil;     Fil.open("DIARY.TXT",ios::in);     char LINE[80];      while (Fil.getline(LINE,80))     {         if (LINE[0]=='T'    LINE[0]=='t')             cout&lt;&lt;LINE&lt;&lt;endl;     }      Fil.close(); } </pre>   | <p>Reading and displaying all those lines, in which the symbol * is present.</p> <pre> void DisplayStarAnywhere() {     fstream Fil;     Fil.open("DIARY.TXT",ios::in);     char LINE[80];     while (Fil.getline(LINE,80))     {         int Found=0,L=strlen(LINE);         for (int I=0;I&lt;L;I++)             if (LINE[I]=='*')                 Found++;         if (Found!=0)             cout&lt;&lt;LINE&lt;&lt;endl;     }     Fil.close(); } </pre>             |
| <p>Reading content from a file and writing on to the other</p> <pre> void Transfer() {     fstream F1,F2;     F1.open("DIARY.TXT",ios::in);     F2.open("DIARY1.TXT",ios::out);      char LINE[80];      while (F1.getline(LINE,80))         F2&lt;&lt;LINE&lt;&lt;endl;      F1.close();     F2.close(); } </pre>  | <p>Reading content from a file and writing on to the other with each of the alphabet in uppercase in the new file</p> <pre> void UCaseTransfer() {     fstream F1,F2;     F1.open("DIARY.TXT",ios::in);     F2.open("DIARY1.TXT",ios::out);      char LINE[80];      while (F1.getline(LINE,80))         F2&lt;&lt;strupr(LINE)&lt;&lt;endl;      F1.close();     F2.close(); } </pre>  |