



Creating a TEXT file

```
void Create()
{
```

Alternative*

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

```
    fstream Fil;
    Fil.open("DIARY.TXT", ios::out);
    char Lin[80], Q;
```

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

```
    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();
}
```

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

F<<Lin<<endl;

2

Displaying the content from TEXT File

```
void Display()
{
```

Alternative**

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

```
    fstream Fil;
    Fil.open("DIARY.TXT", ios::in);
    char Lin[80];
```

Opening a file in 'in' Mode**

```
    while (Fil.getline(Lin, 80)) //Reads a line/checks for end of file
        cout<<Lin<<endl;      //Displays a line of text
    Fil.close();
}
```

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

cout<<Lin<<endl;

2

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 <pre> 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(); } </pre>	Reading and counting the no. of words <pre> 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; } </pre>
Reading each word, reversing and displaying <pre> 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(); } </pre>	Reading each line, reversing and displaying <pre> 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(); } </pre>
Counting number of vowels and consonants <pre> void VowelCount() { fstream Fil; Fil.open("DIARY.TXT",ios::in); char Ch; int NV=0,NC=0; Ch=Fil.get();//Reading a character from File while (!Fil.eof())//Checks for End of File { if (isalpha(Ch)) { Ch=toupper(Ch); if (Ch=='A' Ch=='E' Ch=='I' Ch=='O' Ch=='U') NV++; else NC++; } Ch=Fil.get();//Reading a character from File } cout<<"Vowels : "<<NV<<endl; cout<<"Consonants: "<<NC<<endl; Fil.close(); } </pre>	Adding new lines at the bottom of the file <pre> 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(); } </pre> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> Opening a file in Append 'app' Mode (Moving file write pointer at the bottom of the file without deleting the earlier content) </div>

<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>>WORD; //Reading a word from File while (!Fil.eof())//Checks for End of File { if (strcmpi(WORD,"India")==0) C++; Fil>>WORD; //Reading a word from File } Fil.close(); cout<<"Count of India"<<C<<"Times"<<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>>WORD; //Reading a word from File while (!Fil.eof())//Checks for End of File { if (WORD[0]=='T' WORD[0]=='t') cout<<WORD<<endl; Fil>>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<<LINE<<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<L;I++) if (LINE[I]=='*') Found++; if (Found!=0) cout<<LINE<<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<<LINE<<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<<strupr(LINE)<<endl; F1.close(); F2.close(); } </pre>