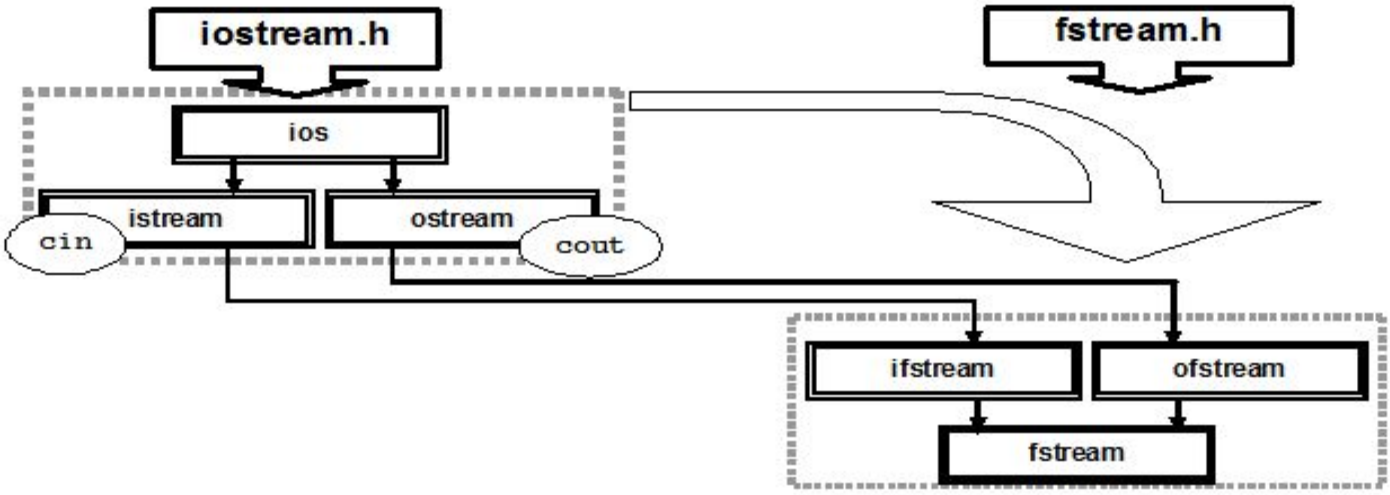
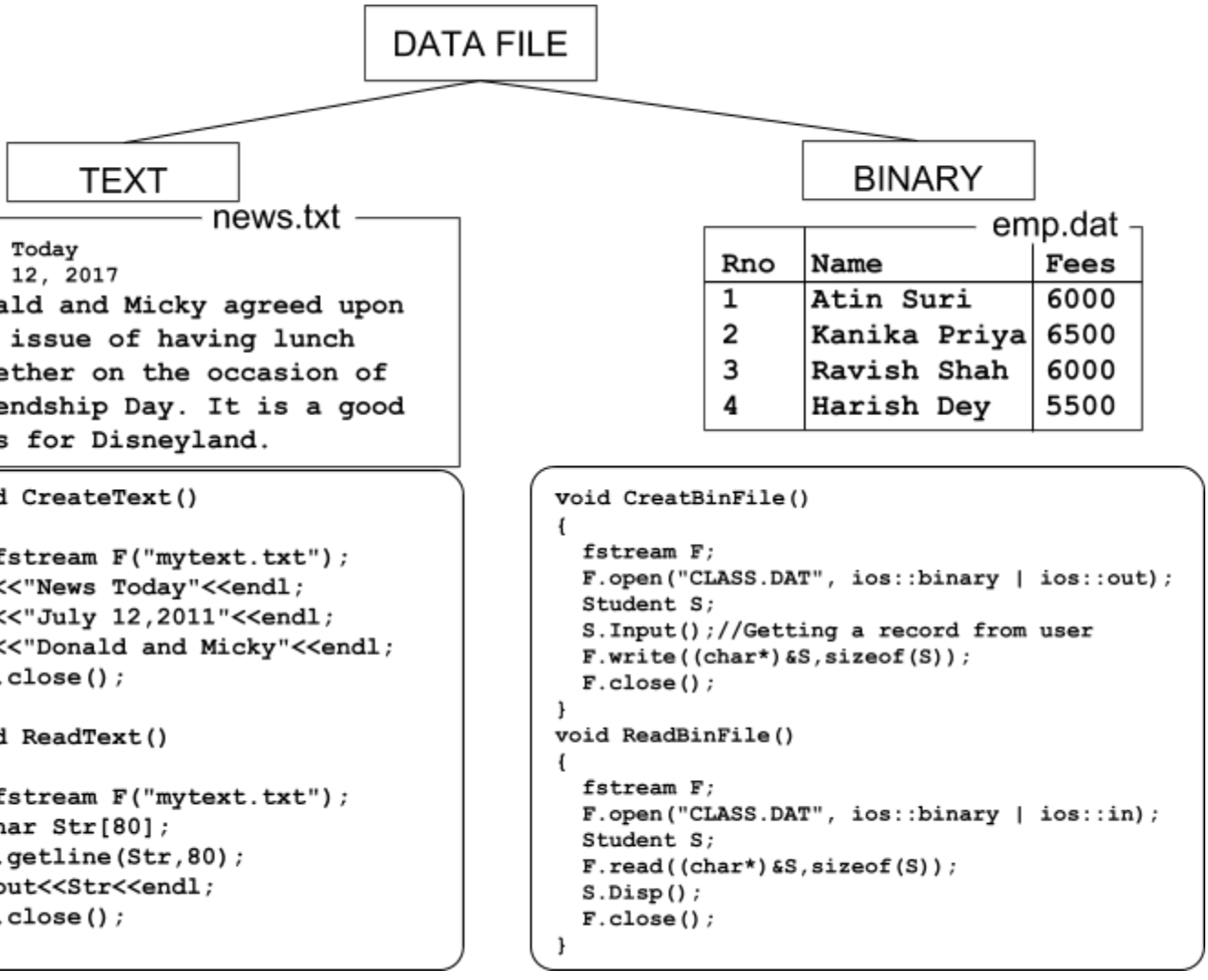
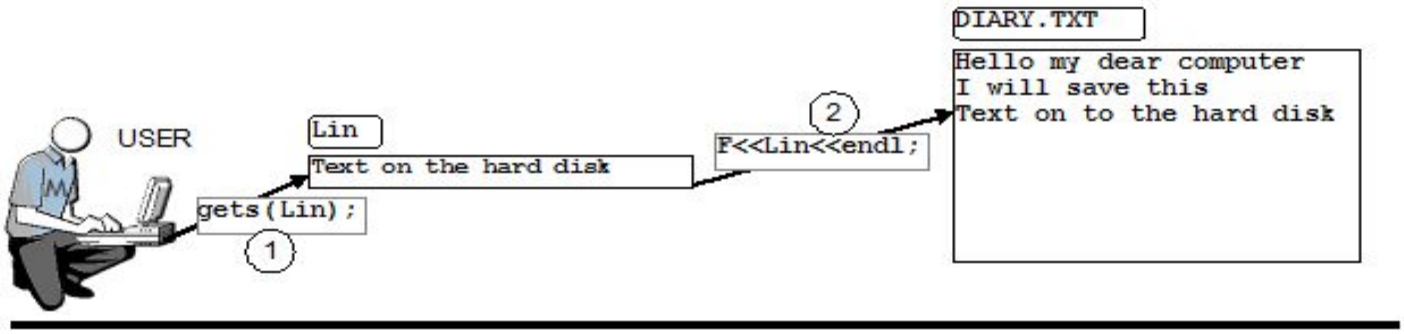

iostream.h
fstream.h
ios
istream
ostream
cin
cout
ifstream
ofstream
fstream


DATA FILE
TEXT
BINARY
news.txt
News Today
July 12, 2017
Donald and Micky agreed upon the issue of having lunch together on the occasion of Friendship Day. It is a good news for Disneyland.
emp.dat
Rno Name Fees
1 Atin Suri 6000
2 Kanika Priya 6500
3 Ravish Shah 6000
4 Harish Dey 5500
void CreateText()
{
ofstream F("mytext.txt");
F<<"News Today"<<endl;
F<<"July 12,2011"<<endl;
F<<"Donald and Micky"<<endl;
F.close();
}
void ReadText()
{
ifstream F("mytext.txt");
char Str[80];
F.getline(Str,80);
cout<<Str<<endl;
F.close();
}
void CreatBinFile()
{
fstream F;
F.open("CLASS.DAT", ios::binary | ios::out);
Student S;
S.Input();//Getting a record from user
F.write((char*)&S,sizeof(S));
F.close();
}
void ReadBinFile()
{
fstream F;
F.open("CLASS.DAT", ios::binary | ios::in);
Student S;
F.read((char*)&S,sizeof(S));
S.Disp();
F.close();
}

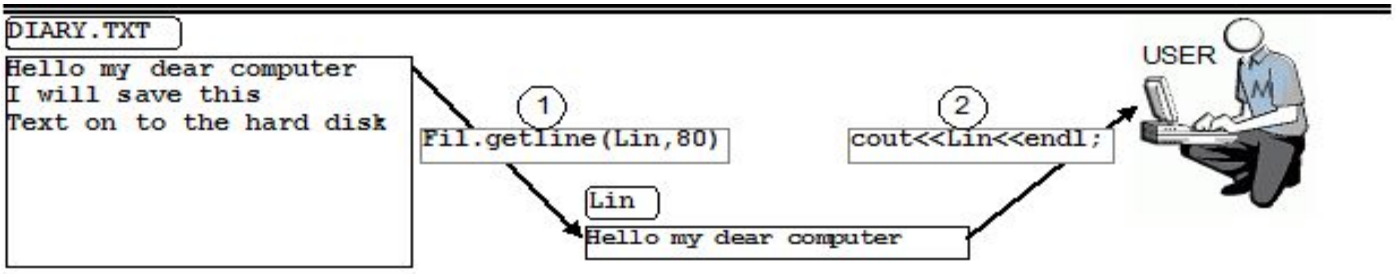
To creating a TEXT file with user's content

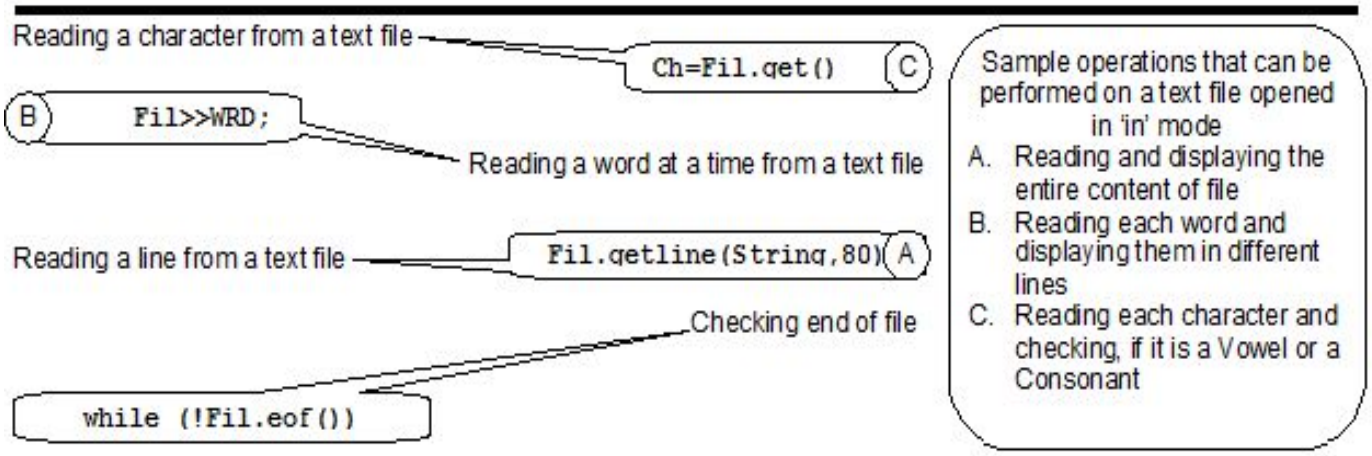
```
void Create()
{
  fstream Fil;                      //Alternative -> ofstream fil("DIARY.TXT");
  Fil.open("DIARY.TXT",ios::out); //Opening a file in 'out' Mode
                                    //(Deletes/Overwrites the earlier content, if present)
  char Lin[80],Q;
  do
  {
    cout<<"Enter Text";gets(Lin); //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();
}
```



To display the content from a TEXT File

```
void Display()
{
  fstream Fil;                      //Alternative -> ifstream fil("DIARY.TXT");
  Fil.open("DIARY.TXT",ios::in);    //Opening a file in 'in' Mode
  char Lin[80];
  while (Fil.getline(Lin,80))       //Reads a line/checks for end of file
    cout<<Lin<<endl;                //Displays a line of text
  Fil.close();
}
```





To read each word and display each word on different lines	To read and count the no. of words

`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();`
`}`
	`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;`
	`}`

To read each word, reverse and display the reversed word	To read each line, reverse and display the reversed line

`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();`
`}`
	`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();`
	`}`

To count number of vowels and consonants

```
void VowelCount()
{
  fstream Fil;
  Fil.open("DIARY.TXT",ios::in);
  char Ch;
  int NV=0,NC=0;
   //Reading a character from File
  Ch=Fil.get();
  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++;
    }
    //Reading a character from File
    Ch=Fil.get();
  }
  cout<<"Vowels    :"<<NV<<endl;
  cout<<"Consonants:"<<NC<<endl;
  Fil.close();
}
```

To Add new lines at the bottom of the file

```
void AddAtEnd()
{
  fstream Fil;
  Fil.open("DIARY.TXT",ios::app);
  /*Opening a file in Append 'app' Mode
    Moves file write pointer at the
    bottom of the file without deleting
    the earlier content
  */
  char Lin[80],Q;
  do
  {
    cout<<"Enter Text";
    gets(Lin);
    Fil<<Lin<<endl;
    cout<<"More(Y/N)?";
    cin>>Q;
  }
  while (Q=='Y');
  Fil.close();
}
```

To read and find count presence of a particular word in a text file

```
void CountIndia()
{
  fstream Fil;
  Fil.open("DIARY.TXT",ios::in);
  char WORD[40];int C=0;
  //Reading a word from File
  Fil>>WORD;
  while (!Fil.eof())//Checks for End of File
  {
    if (strcmpi(WORD,"India"))==0)
      C++;
    //Reading a word from File
    Fil>>WORD;
  }
  Fil.close();
  cout<<"Count of India"
      <<C<<"Times"<<endl;
}
```

To read and display all those words, which start with 'T' or 't'

```
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();
}
```

To read and display all those lines, which start with 'T' or 't'

```
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();
}
```

To read and display all those lines, in which the symbol * is present.

```
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();
}
```

To Read content from a file and write on to the other

```
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();
}
```

To Read content from a file and write on to the other with each of the alphabet in uppercase in a new file

```
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();
}
```