PROJECT CODE

```
#include < bits/stdc++.h>
#include<iostream>
#include<fstream>
#include<stdio.h>
#include<conio.h>
#include<string>
#include<string.h>
#include<ctype.h>
#include<math.h>
#include<cmath>
#include<stdlib.h>
#includeprocess.h>
#include<vector>
using namespace std;
void WRITE();
void READ();
void SEARCH ID();
void COUNT REC();
void SEARCH();
void DELETION();
void MODIFY ID();
void MODIFY();
void SORT();
void DISPLAY FOR CUSTOMER();
void SEARCH NAME FOR CUSTOMER();
bool LOGIN();
void ADMIN();
void CUSTOMER();
void PURCHASE FOR CUSTOMER();
class Medicine
  int ID;
  int qty;
  char name[30];
  char cmpname[30];
  char supname[30];
```

```
float unitCost;
  float saleCost;
public:
  Medicine()
    ID=0;
    qty=0;
    name[0]='\0';
    cmpname[0]='\0';
    supname[0]='\0';
    unitCost=0;
    saleCost=0;
 // Medicine(Medicine &M)
  //{
   // ID=M.ID;
   // qty=M.qty;
   // strcpy(name,M.name);
   // strcpy(cmpname, M.cmpname);
   // strcpy(supname, M. supname);
   // unitCost=M.unitCost;
   // saleCost=M.saleCost;
  //}
  void indata();
  void outdata();
  void OutDataForCustomer();
  void generate bill(int quantity);
  bool purchase(int quantity);
  //getter functions
  int retID();
  char*retName();
  char*retCmpname();
  char*retSupname();
};
```

```
void Medicine::indata()
   cout << "\n Enter Medicine ID";
   cin>>ID;
   cout << "\n Enter Oty ";
   cin>>qty;
   cin.ignore(numeric limits<streamsize>::max(),'\n');
   cout << "\n Enter Medicine name";
   gets(name);
   cout << "\n Enter Company name";
   gets(cmpname);
   cout<<"\n Enter Supplier name ";</pre>
   gets(supname);
  //cin.ignore(numeric limits<streamsize>::max(),'\n');
   //cin.ignore(numeric limits<streamsize>::max(),'\n');
   cout<<"\n Enter Unit Cost ";</pre>
   cin>>unitCost;
   cout<<"\n Enter Sale Cost ";</pre>
   cin>>saleCost;
}
void Medicine::outdata()
     cout<<endl<<"Medicine ID: "<<ID;
     cout << end l << "Name: " << name;
     cout<<endl<<"Company name: "<<cmpname;
     cout<<endl<<"Supplier name: "<<supname;</pre>
     cout<<endl<<"Unit cost: "<<unitCost;</pre>
     cout<<endl<<"Sale Cost: "<<saleCost;
    cout<<endl<<"Quantity: "<<qty;</pre>
    cout << endl;
}
void Medicine::OutDataForCustomer()
     cout << "Name: " << name;
    cout<<endl<<" Company name: "<<cmpname;
    cout<<endl<<" Sale Cost: "<<saleCost;</pre>
    cout << endl;
}
```

```
int Medicine::retID()
  return(ID);
void Medicine::generate bill(int quantity)
  cout << "\n Your Bill ";
  cout<<"\n Name of the medicine: "<<name;
  cout << "\n Quantity: " << quantity;
  float cost;
  cost=quantity*saleCost;
  cout<<"\n Cost: "<<cost;
}
bool Medicine::purchase(int quantity)
  if(quantity>qty)
    return false;
  qty=qty-quantity;
  return true;
char*Medicine::retCmpname()
  return(cmpname);
char*Medicine::retName()
  return(name);
char*Medicine::retSupname()
```

```
return(supname);
struct CompareId1 {
      bool operator()(Medicine p1, Medicine p2)
            return p1.retID() > p2.retID();
};
struct CompareId {
      bool operator()(Medicine p1, Medicine p2)
            return p1.retID() < p2.retID();
};
struct CompareName {
      bool operator()(Medicine p1, Medicine p2)
            return p1.retName() < p2.retName();
};
void WRITE()
  ofstream f("med1.dat",ios::binary | ios::app);
  Medicine m;
  char reply;
  do
    m.indata();
    f.write((char*)&m,sizeof(m));
    cout<<"Want to enter more records";</pre>
    cin>>reply;
  } while(toupper(reply)=='Y');
  f.close();
void READ()
```

```
ifstream f("med1.dat",ios::binary | ios::in);
  Medicine m;
  if(!f)
    cout<<endl<<"FILE DOESN'T EXIST!!!!";</pre>
    return;
  int ctr=0;
  while(f.read((char*)&m,sizeof(m)))
     cout << endl << "Record: " << ++ctr;
    m.outdata();
  f.close();
void SEARCH ID()
  ifstream f("med1.dat",ios::in | ios::binary);
  char found='N';
  Medicine m;
  if(!f)
    cout << endl << "FILE DOESN'T EXIST!!!!!";
    return;
  int id1;
  cout<<"Enter ID whose record is to be searched: ";</pre>
  cin>>id1;
  while(f.read((char*)&m,sizeof(m)))
    if(m.retID()==id1)
       cout<<"INFORMATION OF THE MEDICINE :";</pre>
       m.outdata();
       found='Y';
       break;
```

```
}
  if(found=='N')
    cout << "NO SUCH RECORD FOUND" << endl;
  f.close();
void SEARCH NAME()
  ifstream f("med1.dat",ios::in | ios::binary);
  char found='N';
  Medicine m;
  if(!f)
  {
    cout << endl << "FILE DOESN'T EXIST!!!!!";
    return;
  char nm[30];
  cin.ignore(numeric limits<streamsize>::max(),'\n');
  cout<<"Enter name whose record is to be searched: ";
  gets(nm);
  while(f.read((char*)&m,sizeof(m)))
    if(strcmp(m.retName(),nm)==0)
      cout << "INFORMATION OF THE MEDICINE :";
      m.outdata();
      found='Y';
      break;
  if(found=='N')
    cout << "NO SUCH RECORD FOUND" << endl;
  f.close();
```

```
void SEARCH CMPNAME()
  ifstream f("med1.dat",ios::in | ios::binary);
  char found='N';
  Medicine m;
  if(!f)
  {
    cout << end | << "FILE DOESN'T EXIST!!!!!";
    return;
  char company[30];
  cin.ignore(numeric limits<streamsize>::max(),'\n');
  cout<<"Enter company name whose record is to be searched: ";
  gets(company);
  while(f.read((char*)&m,sizeof(m)))
    if(strcmp(m.retCmpname(),company)==0)
      cout << "INFORMATION OF THE MEDICINE :";
      m.outdata();
      found='Y';
       break;
  if(found=='N')
    cout << "NO SUCH RECORD FOUND" << endl;
  f.close();
void SEARCH SUPNAME()
  ifstream f("med1.dat",ios::in | ios::binary);
  char found='N';
  Medicine m;
  if(!f)
    cout << end !< "FILE DOESN'T EXIST!!!!!";
    return;
```

```
char supply[30];
  cin.ignore(numeric limits<streamsize>::max(),'\n');
  cout<<"Enter company name whose record is to be searched: ";
  gets(supply);
  while(f.read((char*)&m,sizeof(m)))
    if(strcmp(m.retSupname(),supply)==0)
       cout<<"INFORMATION OF THE MEDICINE :";</pre>
       m.outdata();
       found='Y';
       break;
  if(found=='N')
    cout << "NO SUCH RECORD FOUND" << endl;
  f.close();
void COUNT REC()
  Medicine m;
  ifstream fs("med1.dat",ios::in|ios::binary);
  if(!fs)
    cout<<"File Reading Error"<<endl;</pre>
    return;
  int num=0;
  while(fs.read((char*)&m,sizeof(m)))
    num++;
  cout << "Records in the file are-- " << num;
  fs.close();
```

```
void SEARCH()
  int s;
  cout<<"\n Search on the basis of :- ";</pre>
  cout << "\n 1.ID";
  cout << "\n 2.Name";
  cout <<"\n 3.Company Name";
  cout << "\n 4. Supplier Name";
  cin>>s;
  switch(s)
  case 1:
    SEARCH_ID();
    break;
  case 2:
    SEARCH NAME();
    break;
  case 3:
    SEARCH CMPNAME();
    break;
  case 4:
    SEARCH SUPNAME();
    break;
void MODIFY ID()
  fstream f("med1.dat", ios::in | ios::out | ios::binary);
  Medicine m;
  int id1;
  cout << "\n Enter ID whose record is to be modified: ";
  cin>>id1;
  int rec count=0;
  char found='N';
  while(f.read((char*)&m,sizeof(m)))
    if(m.retID()==id1)
       cout<<"\n Enter New Information";</pre>
```

```
m.indata();
       f.seekg(rec count*sizeof(Medicine),ios::beg);
       f.write((char*)&m,sizeof(Medicine));
       found='Y';
       break;
    rec count++;
  if(found=='Y')
    cout << "\n Medicine Details Updated";
  else
    cout<<"\n Record Not Found!!!!";</pre>
  f.close();
void MODIFY NAME()
  fstream f("med1.dat", ios::in | ios::out | ios::binary);
  Medicine m;
  cin.ignore(numeric limits<streamsize>::max(),'\n');
  char nm[30];
  cout<<"\n Enter name whose record is to be modified: ";
  gets(nm);
  int rec count=0;
  char found='N';
  while(f.read((char*)&m,sizeof(m)))
    if(strcmp(nm,m.retName())==0)
       cout<<"\n Enter New Information";
       m.indata();
       f.seekg(rec count*sizeof(Medicine),ios::beg);
       f.write((char*)&m,sizeof(Medicine));
       found='Y';
```

```
break;
    rec count++;
  if(found=='Y')
    cout << "\n Medicine Details Updated";
  else
    cout<<"\n Record Not Found!!!!";</pre>
  f.close();
void MODIFY()
  int s;
  cout<<"\n Modify on the basis of :- ";
  cout << "\n 1.ID";
  cout << "\n 2.Name";
  cin>>s;
  switch(s)
  case 1:
    MODIFY_ID();
    break;
  case 2:
    MODIFY_NAME();
    break;
void DELETION1()
  ifstream fmain("med1.dat", ios::binary | ios::in);
  ofstream ftemp("temp.dat", ios::binary | ios::out);
  Medicine m;
```

```
int id1;
  cout<<"Enter ID whose record is to be deleted:";</pre>
  cin>>id1;
  char found='N';
  while(fmain.read((char*)&m,sizeof(m)))
    if(m.retID()!=id1)
       ftemp.write((char*)&m,sizeof(m));
     else
       found='Y';
  if(found=='N')
    cout << "\n RECORD NOT FOUND!!";
  else
    cout << "\n RECORD DELETED";
  fmain.close();
  ftemp.close();
  remove("med1.dat");
  rename("temp.dat","med1.dat");
void DELETION2()
  ifstream fmain("med1.dat", ios::binary | ios::in);
  ofstream ftemp("temp.dat", ios::binary | ios::out);
  Medicine m;
 // int id1;
  //cout<<"Enter ID whose record is to be deleted:";
  //cin>>id1;
  char nm[30];
  cin.ignore(numeric limits<streamsize>::max(),'\n');
  cout << "Enter Name whose record is to be deleted: ";
```

}

```
gets(nm);
  char found='N';
  while(fmain.read((char*)&m,sizeof(m)))
    if(strcmp(m.retName(),nm)!=0)
       ftemp.write((char*)&m,sizeof(m));
    else
       found='Y';
  if(found=='N')
    cout << "\n RECORD NOT FOUND!!";
  else
    cout<<"\n RECORD DELETED";</pre>
  fmain.close();
  ftemp.close();
  remove("med1.dat");
  rename("temp.dat","med1.dat");
}
void DELETION3()
  ifstream fmain("med1.dat", ios::binary | ios::in);
  ofstream ftemp("temp.dat", ios::binary | ios::out);
  Medicine m;
 // int id1;
  //cout<<"Enter ID whose record is to be deleted:";
  //cin>>id1;
  char nm[30];
  cin.ignore(numeric limits<streamsize>::max(),'\n');
  cout<<"Enter Name whose record is to be deleted: ";
  gets(nm);
  char found='N';
```

```
while(fmain.read((char*)&m,sizeof(m)))
    if(strcmp(m.retCmpname(),nm)!=0)
       ftemp.write((char*)&m,sizeof(m));
    else
       found='Y';
  if(found=='N')
    cout << "\n RECORD NOT FOUND!!";
  else
    cout<<"\n RECORD DELETED";</pre>
  fmain.close();
  ftemp.close();
  remove("med1.dat");
  rename("temp.dat","med1.dat");
}
void DELETION4()
  ifstream fmain("med1.dat", ios::binary | ios::in);
  ofstream ftemp("temp.dat", ios::binary | ios::out);
  Medicine m;
 // int id1;
  //cout<<"Enter ID whose record is to be deleted:";
  //cin>>id1:
  char nm[30];
  cin.ignore(numeric limits<streamsize>::max(),'\n');
  cout << "Enter Name whose record is to be deleted: ";
  gets(nm);
  char found='N';
  while(fmain.read((char*)&m,sizeof(m)))
```

```
if(strcmp(m.retSupname(),nm)!=0)
       ftemp.write((char*)&m,sizeof(m));
    else
       found='Y';
  if(found=='N')
    cout << "\n RECORD NOT FOUND!!";
  else
    cout<<"\n RECORD DELETED";</pre>
  fmain.close();
  ftemp.close();
  remove("med1.dat");
  rename("temp.dat","med1.dat");
}
void DELETION()
  int s;
  cout << "\n Delete on the basis of :- ";
  cout<<"\n 1.ID";
  cout << "\n 2.Name";
  cout << "\n 3.Company Name";
  cout << "\n 4.Supplier Name";
  cin>>s;
  switch(s)
  case 1:
       DELETION1();
       break;
```

```
case 2:
       DELETION2();
       break;
     }
  case 3:
     {
       DELETION3();
       break;
  case 4:
     {
       DELETION4();
       break;
void merge1(Medicine arr[], int l, int m, int r)
  int n1 = m - 1 + 1;
  int n2 = r - m;
  Medicine L[n1], R[n2];
  for (int i = 0; i < n1; i++)
     L[i] = arr[1+i];
  for (int j = 0; j < n2; j++)
     R[j] = arr[m + 1 + j];
  int i = 0;
  int j = 0;
  int k = 1;
  while (i < n1 \&\& j < n2) {
     if(L[i].retID() \le R[j].retID()) {
       arr[k] = L[i];
       i++;
     else {
```

```
arr[k] = R[j];
       j++;
     k++;
  while (i \le n1) {
     arr[k] = L[i];
    i++;
     k++;
  while (j \le n2) {
     arr[k] = R[j];
    j++;
    k++;
void mergeSort(Medicine arr[], int l, int r)
  if (1 \le r) {
     int m = (1 + r - 1) / 2;
     mergeSort(arr, 1, m);
     mergeSort(arr, m + 1, r);
     merge1(arr, 1, m, r);
void SORT_BY_ID()
  fstream f;
  f.open("med1.dat",ios::binary | ios::in);
  Medicine M[1000];
  if(!f)
     cout<<"FILE DOESN'T EXISTS!!!!! ";</pre>
```

```
return;
int n=0;
while(f.read((char*)&M[n],sizeof(Medicine)))
  n++;
Medicine temp;
int choice;
cout << "Sort" << endl;
cout<<"1. Ascending"<<endl;</pre>
cout << "2. Descending" << endl;
cin>>choice;
if(choice==1)
  priority_queue<Medicine,vector<Medicine>,CompareId1>Q;
  for(int i=0;i< n;i++)
    Q.push(M[i]);
  for(int i=0;i< n;i++)
    M[i]=Q.top();
    Q.pop();
else
  priority_queue<Medicine,vector<Medicine>,CompareId>Q;
  for(int i=0;i<n;i++)
    Q.push(M[i]);
  for(int i=0;i< n;i++)
    M[i]=Q.top();
    Q.pop();
```

```
}
  f.close();
  f.open("med1.dat",ios::binary | ios::out);
  while(i<n)
    f.write((char*)&M[i],sizeof(Medicine));
    ++i;
  cout<<"\n FILE SORTED";</pre>
  f.close();
void SORT BY NAME()
  fstream f;
  f.open("med1.dat",ios::binary | ios::in);
  Medicine M[1000];
  if(!f)
    cout<<"FILE DOESN'T EXISTS!!!!! ";</pre>
    return;
  int n=0;
  while(f.read((char*)&M[n],sizeof(Medicine)))
   {
     n++;
  Medicine temp;
  int choice;
  cout << "Sort" << endl;
  cout << "1. Ascending" << endl;
  cout << "2. Descending" << endl;
  cin>>choice;
```

```
if(choice==1)
  for(int i=1;i<n;i++)
    for(int j=0;j< n-i;j++)
       if(strcmp(M[i].retName(),M[i+1].retName())>0)
         temp=M[i];
         M[j]=M[j+1];
         M[j+1]=temp;
else
  priority queue<Medicine,vector<Medicine>,CompareName>Q;
  for(int i=0;i< n;i++)
    Q.push(M[i]);
  for(int i=0;i< n;i++)
    M[i]=Q.top();
    Q.pop();
}
f.close();
f.open("med1.dat",ios::binary | ios::out);
int i=0;
while(i<n)
  f.write((char*)&M[i],sizeof(Medicine));
  ++i;
cout<<"\n FILE SORTED";</pre>
f.close();
```

```
void SORT_BY_CMPNAME()
  fstream f;
  f.open("med1.dat",ios::binary | ios::in);
  Medicine M[1000];
  if(!f)
    cout<<"FILE DOESN'T EXISTS!!!!! ";</pre>
    return;
  int n=0;
  while(f.read((char*)&M[n],sizeof(Medicine)))
   {
     n++;
  Medicine temp;
  int choice;
  cout << "Sort" << endl;
  cout << "1. Ascending" << endl;
  cout << "2. Descending" << endl;
  cin>>choice;
  if(choice==1)
    for(int i=1;i< n;i++)
       for(int j=0;j< n-i;j++)
         if(strcmp(M[j].retCmpname(),M[j+1].retCmpname())>0)
            temp=M[j];
            M[j]=M[j+1];
            M[j+1]=temp;
    }
```

```
}
  else
    for(int i=1;i< n;i++)
       for(int j=0;j< n-i;j++)
         if(strcmp(M[j].retCmpname(),M[j+1].retCmpname())<0)
            temp=M[j];
            M[j]=M[j+1];
            M[j+1]=temp;
      }
  f.close();
  f.open("med1.dat",ios::binary | ios::out);
  int i=0;
  while(i<n)
    f.write((char*)&M[i],sizeof(Medicine));
    ++i;
  cout<<"\n FILE SORTED";</pre>
  f.close();
void SORT BY SMPNAME()
  fstream f;
  f.open("med1.dat",ios::binary | ios::in);
  Medicine M[1000];
  if(!f)
```

```
cout<<"FILE DOESN'T EXISTS!!!!! ";</pre>
  return;
}
int n=0;
while(f.read((char*)&M[n],sizeof(Medicine)))
{
   n++;
Medicine temp;
int choice;
cout << "Sort" << endl;
cout << "1. Ascending" << endl;
cout << "2. Descending" << endl;
cin>>choice;
if(choice==1)
  for(int i=1;i< n;i++)
    for(int j=0;j< n-i;j++)
       if(strcmp(M[j].retSupname(),M[j+1].retSupname())>0)
          temp=M[j];
          M[j]=M[j+1];
          M[j+1]=temp;
else
  for(int i=1;i< n;i++)
    for(int j=0;j< n-i;j++)
       if(strcmp(M[j].retSupname(),M[j+1].retSupname())<0)</pre>
```

```
temp=M[j];
            M[j]=M[j+1];
            M[j+1]=temp;
  f.close();
  f.open("med1.dat",ios::binary | ios::out);
  int i=0;
  while(i<n)
    f.write((char*)&M[i],sizeof(Medicine));
    ++i;
  }
  cout<<"\n FILE SORTED";</pre>
  f.close();
}
void SORT()
  int s;
  cout<<"\n Sort on the basis of :- ";</pre>
  cout<<"\n 1.ID";
  cout << "\n 2.Name";
  cout << "\n 3.Company Name";
  cout << "\n 4.Supplier Name";
  cin>>s;
  switch(s)
  case 1:
       SORT BY ID();
       break;
```

```
case 2:
       SORT_BY_NAME();
       break;
    }
  case 3:
       SORT BY CMPNAME();
       break;
  case 4:
     {
       SORT_BY_SMPNAME();
       break;
void ADMIN()
  char ch1;
  int ch;
  do{
    cout << "\n WELCOME TO MEDICAL STORE";
    cout << "\n 1.Create a file";
    cout << "\n 2.Read a file";
    cout << "\n 3.Count total records in a file";
    cout<<"\n 4.Search some Record";</pre>
    cout << "\n 5. Modify a record";
    cout << "\n 6.Delete a record ";
    cout << "\n 7. Sort all records";
    cout <<"\n 8.Exit";
    cin>>ch;
    switch(ch)
    case 1:
       WRITE();
       break;
```

```
case 2:
       READ();
       break;
    case 3:
       COUNT REC();
       break;
    case 4:
       SEARCH();
       break;
    case 5:
       MODIFY();
       break;
    case 6:
       DELETION();
       break;
    case 7:
       SORT();
       break;
    case 8:
       break;
    cout<<endl<<"\n Want to continue as ADMIN(y/n)--";
    cin>>ch1;
  }while(ch1=='y' || ch1=='Y');
}
bool LOGIN()
  char username[30];
  char password[30];
  cin.ignore(numeric limits<streamsize>::max(),'\n');
  cout << "\n Enter Username ";
  gets(username);
  cout<<"\n Enter Password ";</pre>
  gets(password);
```

```
if((strcmp(username, "admin")==0) && (strcmp(password, "Hello")==0))
    return true;
  return false;
}
void DISPLAY FOR CUSTOMER()
  ifstream f("med1.dat",ios::binary | ios::in);
  Medicine m;
  if(!f)
    cout<<endl<<"FILE DOESN'T EXIST!!!!";
    return;
  int ctr=0;
  while(f.read((char*)&m,sizeof(m)))
    cout<<endl<<++ctr<<")";
    m.OutDataForCustomer();
  f.close();
void SEARCH NAME FOR CUSTOMER()
  ifstream f("med1.dat",ios::in | ios::binary);
  char found='N';
  Medicine m;
  if(!f)
    cout << endl << "FILE DOESN'T EXIST!!!!!";
    return;
  char nm[30];
  cin.ignore(numeric_limits<streamsize>::max(),'\n');
```

```
cout<<"Enter name whose record is to be searched: ";
  gets(nm);
  while(f.read((char*)&m,sizeof(m)))
    if(strcmp(m.retName(),nm)==0)
      cout<<"INFORMATION OF THE MEDICINE : \n";
      cout<<" ";
      m.OutDataForCustomer();
       found='Y';
      break;
  if(found=='N')
    cout << "NO SUCH RECORD FOUND" << endl;
  f.close();
void PURCHASE FOR CUSTOMER()
  fstream f("med1.dat", ios::in | ios::out | ios::binary);
  Medicine m;
  cin.ignore(numeric limits<streamsize>::max(),'\n');
  char nm[30];
  int quantity;
  cout<<"\n Enter Medicine name you want to buy ";
  gets(nm);
  int rec count=0;
  bool b;
  char found='N';
  while(f.read((char*)&m,sizeof(m)))
    if(strcmp(nm,m.retName())==0)
```

```
cout<<"\n Enter quantity";</pre>
       cin>>quantity;
       b=m.purchase(quantity);
       if(!b)
          cout<<"SORRY! your required quantity was not present in our stock \n";
          cout << "Please enter a valid quantity \n";
       //Place content
       f.seekg(rec count*sizeof(Medicine),ios::beg);
       f.write((char*)&m,sizeof(Medicine));
       found='Y';
       break;
    rec count++;
  if(!b && found=='Y')
  else if(found=='Y')
    m.generate bill(quantity);
    cout<<"\n Your Purchase was successfull";</pre>
  else
    cout<<"\n Please Enter a valid Medicine Name";</pre>
  f.close();
void CUSTOMER()
  //cout<<"Hello"<<endl;
  char ch1;
  int ch;
```

```
do{
    cout<<"\n WELCOME TO MEDICAL STORE";</pre>
    cout << "\n 1.Explore All Available Medicines";
    cout<<"\n 2.Search some Medicine name";</pre>
    cout << "\n 3. Purchase some Medicine";
    cout << "\n 4.Exit";
    cin>>ch;
    switch(ch)
    case 1:
      DISPLAY FOR CUSTOMER();
      break;
    case 2:
      SEARCH NAME FOR CUSTOMER();
      break;
    case 3:
      PURCHASE FOR CUSTOMER();
      break;
    case 4:
      break;
    cout << endl << "Want to continue as Customer(y/n)--";
    cin>>ch1;
  \} while(ch1=='y' || ch1=='Y');
int main()
  char ch1;
  int ch;
  do{
    cout<<"\n WELCOME TO MEDICAL STORE";
    cout << "\n ENTER AS";
    cout << "\n 1.ADMIN";
    cout << "\n 2.CUSTOMER";
    cout << "\n 3.Exit \n";
    cin>>ch;
    switch(ch)
```

```
case 1:
          bool b=LOGIN();
          if(b)
            ADMIN();
          else
            cout<<"\n Wrong Username or Password \n";
          break;
      case 2:
          CUSTOMER();
          break;
      case 3:
          break;
    cout << endl << "Want to continue in Medical Store(y/n)--";
    cin>>ch1;
  return 0;
OUTPUT
```

OUTPUT

Welcome to medical store

Admin Login

```
C:\Users\Lenovo-1\Desktop\proposals\dsProject\sample2.exe
WELCOME TO MEDICAL STORE
ENTER AS
1.ADMIN
2.CUSTOMER
3.Exit
 Enter Username admin
Enter Password Hello
WELCOME TO MEDICAL STORE
1.Create a file
2.Read a file
3.Count total records in a file
4. Search some Record
5.Modify a record
6.Delete a record
7.Sort all records
8.Exit
```

Create medicine records

```
WELCOME TO MEDICAL STORE
1.Create a file
2.Read a file
3.Count total records in a file
4. Search some Record
5.Modify a record
6.Delete a record
7.Sort all records
8.Exit1
Enter Medicine ID 2
Enter Qty 60
Enter Medicine name Paracetamol
Enter Company name CFL_Pharma
Enter Supplier name Om_Pharmacy
Enter Unit Cost 8
Enter Sale Cost 10
Want to enter more recordsn
Want to continue as ADMIN(y/n)--
```

C:\Users\Lenovo-1\Desktop\proposals\dsProject\sample2.exe Want to continue as ADMIN(y/n)--y WELCOME TO MEDICAL STORE 1.Create a file 2.Read a file 3.Count total records in a file 4. Search some Record 5.Modify a record 6.Delete a record 7.Sort all records 8.Exit1 Enter Medicine ID 3 Enter Qty 70 Enter Medicine name Disprin Enter Company name Reckitts_&_Benckiser_India Enter Supplier name Sai_Distributors Enter Unit Cost 1.2 Enter Sale Cost 0.8 Want to enter more recordsy Enter Medicine ID 4 Enter Qty 75 Enter Medicine name Apirin Enter Company name INTAS Enter Supplier name Om_Pharmacy Enter Unit Cost 7.5 Enter Sale Cost 10

Want to enter more recordsn_

Read All Records

```
C:\Users\Lenovo-1\Desktop\proposals\dsProject\sample2.exe
 WELCOME TO MEDICAL STORE
 1.Create a file
 2.Read a file
 3.Count total records in a file
 4. Search some Record
 5.Modify a record
 6.Delete a record
 7.Sort all records
 8.Exit2
Record: 1
Medicine ID: 1
Name: Sinex
Company name: Herbal
Supplier name: Om Pharmacy
Unit cost: 10
Sale Cost: 15
Quantity: 50
Record: 2
Medicine ID: 2
Name: Paracetamol
Company name: CFL Pharma
Supplier name: Om Pharmacy
Unit cost: 8
Sale Cost: 10
Quantity: 60
Record: 3
Medicine ID: 3
Name: Disprin
Company name: Reckitts & Benckiser India
Supplier name: Sai Distributors
Unit cost: 1.2
Sale Cost: 0.8
Quantity: 70
Record: 4
Medicine ID: 4
Name: Apirin
Company name: INTAS
Supplier name: Om Pharmacy
Unit cost: 7.5
Sale Cost: 10
```

C:\Users\Lenovo-1\Desktop\proposals\dsProject\sample2.exe Quantity: 60 Record: 3 Medicine ID: 3 Name: Disprin Company name: Reckitts & Benckiser India Supplier name: Sai_Distributors Unit cost: 1.2 Sale Cost: 0.8 Quantity: 70 Record: 4 Medicine ID: 4 Name: Apirin Company name: INTAS Supplier name: Om_Pharmacy Unit cost: 7.5 Sale Cost: 10 Quantity: 75 Record: 5 Medicine ID: 5 Name: ibuprofen Company name: Synmedic_Laboratories Supplier name: Indian_Medical_Distributers Unit cost: 5 Sale Cost: 7 Quantity: 60 Record: 6 Medicine ID: 6 Name: Pepto bismol Company name: Procter & Gamble Company Supplier name: Jindal_Medi_Surge Unit cost: 4 Sale Cost: 6 Quantity: 90 Want to continue as ADMIN(y/n)--

Count Records

```
Want to continue as ADMIN(y/n)--y

WELCOME TO MEDICAL STORE

1.Create a file

2.Read a file

3.Count total records in a file

4.Search some Record

5.Modify a record

6.Delete a record

7.Sort all records

8.Exit3

Records in the file are-- 6

Want to continue as ADMIN(y/n)--
```

Search records

On ID basis

```
WELCOME TO MEDICAL STORE
1.Create a file
2.Read a file
3.Count total records in a file
4.Search some Record
5.Modify a record
6.Delete a record
 7.Sort all records
8.Exit4
Search on the basis of :-
1.ID
2.Name
3.Company Name
4. Supplier Name1
Enter ID whose record is to be searched: 3
INFORMATION OF THE MEDICINE :
Medicine ID: 3
Name: Disprin
Company name: Reckitts_&_Benckiser_India
Supplier name: Sai Distributors
Unit cost: 1.2
Sale Cost: 0.8
Quantity: 70
Want to continue as ADMIN(y/n)--
```

On Name basis

```
Want to continue as ADMIN(y/n)--y
 WELCOME TO MEDICAL STORE
 1.Create a file
2.Read a file
 3.Count total records in a file
 4.Search some Record
 5.Modify a record
6.Delete a record
7.Sort all records
 8.Exit4
 Search on the basis of :-
 1.ID
 2.Name
 3.Company Name
 4.Supplier Name2
Enter name whose record is to be searched: Sinex INFORMATION OF THE MEDICINE :
Medicine ID: 1
Name: Sinex
Company name: Herbal
Supplier name: Om_Pharmacy
Unit cost: 10
Sale Cost: 15
Quantity: 50
 Want to continue as ADMIN(y/n)--
```

On Company Name basis

```
Want to continue as ADMIN(y/n)--y
WELCOME TO MEDICAL STORE
1.Create a file
2.Read a file
3.Count total records in a file
4.Search some Record
5.Modify a record
6.Delete a record
 7.Sort all records
8.Exit4
Search on the basis of :-
1.ID
2.Name
3.Company Name
4. Supplier Name3
Enter company name whose record is to be searched: Herbal
INFORMATION OF THE MEDICINE :
Medicine ID: 1
Name: Sinex
Company name: Herbal
Supplier name: Om Pharmacy
Unit cost: 10
Sale Cost: 15
Quantity: 50
Want to continue as ADMIN(v/n)
```

On Supplier Name basis

```
Want to continue as ADMIN(y/n)--y
WELCOME TO MEDICAL STORE
1.Create a file
2.Read a file
3.Count total records in a file
4. Search some Record
5.Modify a record
6.Delete a record
7.Sort all records
8.Exit4
Search on the basis of :-
1.ID
2.Name
3.Company Name
4.Supplier Name4
Enter company name whose record is to be searched: Jindal_Medi_Surge
INFORMATION OF THE MEDICINE :
Medicine ID: 6
Name: Pepto_bismol
Company name: Procter_&_Gamble_Company
Supplier name: Jindal_Medi_Surge
Unit cost: 4
Sale Cost: 6
Quantity: 90
Want to continue as ADMIN(v/n)-
```

Modify Records(On ID and name basis) (Here I will show only on the basis of ID, else it works perfectly when we search on the basis of Name etc.)

On ID basis

■ C:\Users\Lenovo-1\Desktop\proposals\dsProject\sample2.exe

```
2.Read a file
3.Count total records in a file
4. Search some Record
5.Modify a record
6.Delete a record
7.Sort all records
8.Exit5
Modify on the basis of :-
1.ID
2.Name1
Enter ID whose record is to be modified: 4
Enter New Information
Enter Medicine ID 4
Enter Qty 90
Enter Medicine name Aspirin
Enter Company name INTAS
Enter Supplier name Om_Pharmacy
Enter Unit Cost 7.5
Enter Sale Cost 10
Medicine Details Updated
Want to continue as ADMIN(y/n)--
```

Delete Records (On ID, name, company name, supplier name basis) (Here I will show only on the basis of ID, else it works perfectly when we search on other basis etc.)

```
Want to continue as ADMIN(y/n)--y
WELCOME TO MEDICAL STORE
1.Create a file
2.Read a file
3.Count total records in a file
4.Search some Record
5.Modify a record
6.Delete a record
7.Sort all records
8.Exit6
Delete on the basis of :-
1.ID
2.Name
3.Company Name
4.Supplier Name1
Enter ID whose record is to be deleted:6
RECORD DELETED
Want to continue as ADMIN(y/n)--
```

Here we can we record get deleted on reading all records

Record: 1 Medicine ID: 1 Name: Sinex Company name: Herbal Supplier name: Om Pharmacy Unit cost: 10 Sale Cost: 15 Quantity: 50 Record: 2 Medicine ID: 2 Name: Paracetamol Company name: CFL Pharma Supplier name: Om_Pharmacy Unit cost: 8 Sale Cost: 10 Quantity: 60 Record: 3 Medicine ID: 3 Name: Disprin Company name: Reckitts & Benckiser India Supplier name: Sai Distributors Unit cost: 1.2 Sale Cost: 0.8 Quantity: 70 Record: 4 Medicine ID: 4 Name: Aspirin Company name: INTAS Supplier name: Om Pharmacy Unit cost: 7.5 Sale Cost: 10 Quantity: 90 Record: 5 Medicine ID: 5 Name: ibuprofen Company name: Synmedic Laboratories Supplier name: Indian Medical Distributers Unit cost: 5 Sale Cost: 7 Ouantity: 60

SORT all records

(On ID, name, company name, supplier name basis)(both ascending and descending) (Here I will show only on the basis of name, else it works perfectly when we search on other basis etc. in both ascending and descending ways)

```
WELCOME TO MEDICAL STORE
 1.Create a file
 2.Read a file
 3.Count total records in a file
 4. Search some Record
 5.Modify a record
 6.Delete a record
 7.Sort all records
 8.Exit7
 Sort on the basis of :-
 1.ID
 2.Name
 3.Company Name
 4. Supplier Name2

    Ascending

Descending
 FILE SORTED
 Want to continue as ADMIN(y/n)--y
 WELCOME TO MEDICAL STORE
 1.Create a file
 2.Read a file
 3.Count total records in a file
 4. Search some Record
 5.Modify a record
 6.Delete a record
 7.Sort all records
 8.Exit2
Record: 1
Medicine ID: 4
Name: Aspirin
Company name: INTAS
Supplier name: Om Pharmacy
Unit cost: 7.5
Sale Cost: 10
Quantity: 90
Record: 2
```

C:\Users\Lenovo-1\Desktop\proposals\dsProject\sample2.exe

```
WELCOME TO MEDICAL STORE
1.Create a file
2.Read a file
3.Count total records in a file
4. Search some Record
5.Modify a record
6.Delete a record
7.Sort all records
8.Exit2
Record: 1
Medicine ID: 4
Name: Aspirin
Company name: INTAS
Supplier name: Om_Pharmacy
Unit cost: 7.5
Sale Cost: 10
Quantity: 90
Record: 2
Medicine ID: 3
Name: Disprin
Company name: Reckitts & Benckiser India
Supplier name: Sai Distributors
Unit cost: 1.2
Sale Cost: 0.8
Quantity: 70
Record: 3
Medicine ID: 2
Name: Paracetamol
Company name: CFL_Pharma
Supplier name: Om_Pharmacy
Unit cost: 8
Sale Cost: 10
Quantity: 60
Record: 4
Medicine ID: 1
Name: Sinex
Company name: Herbal
Supplier name: Om_Pharmacy
Unit cost: 10
Sale Cost: 15
Record: 5
Medicine ID: 5
Name: ibuprofen
Company name: Synmedic_Laboratories
Supplier name: Indian Medical Distributers
Unit cost: 5
Sale Cost: 7
Quantity: 60
Want to continue as ADMIN(y/n)--
```

Customer Panel Explore All medicines

```
Want to continue in Medical Store(y/n)--y
 WELCOME TO MEDICAL STORE
 ENTER AS
 1.ADMIN
 2.CUSTOMER
Exit
2
 WELCOME TO MEDICAL STORE
1.Explore All Available Medicines
 2. Search some Medicine name
 3. Purchase some Medicine
 4.Exit1
1)Name: Aspirin
 Company name: INTAS
  Sale Cost: 10
2)Name: Disprin
 Company name: Reckitts & Benckiser India
  Sale Cost: 0.8
3)Name: Paracetamol
  Company name: CFL Pharma
  Sale Cost: 10
4)Name: Sinex
  Company name: Herbal
  Sale Cost: 15
5)Name: ibuprofen
  Company name: Synmedic Laboratories
  Sale Cost: 7
Want to continue as Customer(y/n)--
```

Search some medicine

```
WELCOME TO MEDICAL STORE
 1.Explore All Available Medicines
 2.Search some Medicine name
 3.Purchase some Medicine
Enter name whose record is to be searched: Disprin
INFORMATION OF THE MEDICINE :
 Name: Disprin
 Company name: Reckitts & Benckiser India
 Sale Cost: 0.8
Want to continue as Customer(y/n)--y
 WELCOME TO MEDICAL STORE
 1.Explore All Available Medicines
 2.Search some Medicine name
 3.Purchase some Medicine
 4.Exit2
Enter name whose record is to be searched: rantidine
NO SUCH RECORD FOUND
Want to continue as Customer(y/n)--_
```

Purchase some medicine

```
WELCOME TO MEDICAL STORE

1.Explore All Available Medicines

2.Search some Medicine name

3.Purchase some Medicine

4.Exit3

Enter Medicine name you want to buy ibuprofen

Enter quantity10

Your Bill
Name of the medicine: ibuprofen
Quantity: 10
Cost: 70
Your Purchase was successfull
Want to continue as Customer(y/n)--
```