// SOURCE CODE

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

//HEADER FILES//

#include<iostream.h>

#include<fstream.h>

#include<process.h>

#include<stdio.h>

#include<dos.h>

#include<conio.h>

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

struct date1

{

int day;

int mon;

int year;

};

class STUDENT

{ int NOB, std;

int fine;

char sname[30];

date1 d1,d2;

protected:

int enrollno;

public:

STUDENT()

{

NOB=0;

fine=0;

d1.day=0;

d1.mon=0;

d1.year=0;

d2.day=0;

d2.mon=0;

d2.year=0;

}

void CREATE()

{

cout<<"\nenter student name:";gets(sname);

cout<<"\nenter student rollno:";cin>>enrollno;

cout<<"\nenter class:";cin>>std;

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

//DISPLAY FUNCTION//

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

void DISPLAY()

{

cout<<"\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n";

cout<<"\n student name:";puts(sname);

cout<<"\n student rollno:";cout<<enrollno;

cout<<"\n class:";cout<<std;

cout<<"\n no of books issued:";cout<<NOB;

cout<<"\n date of issue:";cout<<d1.day<<"-"<<d1.mon<<"-"<<d1.year;

cout<<"\n date of return:";cout<<d2.day<<"-"<<d2.mon<<"-"<<d2.year;

cout<<"\n fine to be paid:";cout<<fine;

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

void f\_fine()

{

cout<<"\n fine to be paid:";cout<<fine;

}

void DOI()

{

date D;

getdate(&D);

d1.year=D.da\_year;

d1.mon=D.da\_mon;

d1.day=D.da\_day;

}

void DOR()

{

date C;

getdate(&C);

d2.year=C.da\_year;

d2.mon=C.da\_mon;

d2.day=C.da\_day;

}

void get\_nob()

{

NOB=NOB+1;

}

void set\_nob()

{

NOB=NOB-1;

}

int ret\_roll()

{

return enrollno;

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

// FINE CALCULATION FUNCTION//

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

void calc\_fine()

{

int val=d1.day,M,N,val1=d2.day,F;

if(d1.mon==1)

{

M=val;

}

else if(d1.mon==2)

{

M=31+val;

}

else if(d1.mon==3)

{

M=28+31+val;

}

else if(d1.mon==4)

{

M=31+28+31+val;

}

else if(d1.mon==5)

{

M=30+31+28+31+val;

}

else if(d1.mon==6)

{

M=31+30+31+28+31+val;

}

else if(d1.mon==7)

{

M=30+31+30+31+28+31+val;

}

else if(d1.mon==8)

{

M=31+30+31+30+31+28+31+val;

}

else if(d1.mon==9)

{

M=31+31+30+31+30+31+28+31+val;

}

else if(d1.mon==10)

{

M=30+31+31+30+31+30+31+28+31+val;

}

else if(d1.mon==11)

{

M=31+30+31+31+30+31+30+31+28+31+val;

}

else if(d1.mon==12)

{

M=30+31+30+31+31+30+31+30+31+28+31+val;

}

if(d2.mon==1)

{

N=val1;

}

else if(d2.mon==2)

{

N=31+val1;

}

else if(d2.mon==3)

{

N=28+31+val1;

}

else if(d2.mon==4)

{

N=31+28+31+val1;

}

else if(d2.mon==5)

{

N=30+31+28+31+val1;

}

else if(d2.mon==6)

{

N=31+30+31+28+31+val1;

}

else if(d2.mon==7)

{

N=30+31+30+31+28+31+val1;

}

else if(d2.mon==8)

{

N=31+30+31+30+31+28+31+val1;

}

else if(d2.mon==9)

{

N=31+31+30+31+30+31+28+31+val1;

}

else if(d2.mon==10)

{

N=30+31+31+30+31+30+31+28+31+val1;

}

else if(d2.mon==11)

{

N=31+30+31+31+30+31+30+31+28+31+val1;

}

else if(d2.mon==12)

{

N=30+31+30+31+31+30+31+30+31+28+31+val1;

}

F=N-M;

if(F>10)

{

fine=(F-1)\*5;

}

}

};

class BOOK

{

int qty,total\_books;

char bname[30],author[30];

float price;

protected:

int bno;

public:

BOOK()

{

qty=0;

bno=0;

total\_books=0;

}

void get\_qty()

{

qty=qty+1;

}

void set\_qty()

{

qty=qty-1;

}

void BCREATE()

{

cout<<"\nenter book name:";gets(bname);

cout<<"\nenter bookno:";cin>>bno;

cout<<"\nenter book price:";cin>>price;

cout<<"\nenter author name :";gets(author);

cout<<"\nenter number of books :";cin>>qty;

calc\_tot(qty);

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

//BOOK DISPLAY FUNCTION//

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

void BDISPLAY()

{

cout<<"\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n";

cout<<"\n book name:";puts(bname);

cout<<" bookno:";cout<<bno;

cout<<"\n author name:";puts(author);

cout<<"\book Quantity:";cout<<qty;

cout<<"\n book price:";cout<<price;

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

void calc\_tot(int x)

{

total\_books+=x;

}

void tot\_book()

{

cout<<"\n available book in the library:"<<total\_books;

}

int ret\_bno()

{

return bno;

}

void set\_price(int x)

{

price=x;

}

};

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

//STUDENT RECORDS//

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

//SEARCH FUNCTION//

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

void SEARCH()

{ STUDENT S;

int R;

cout<<"\n enter student enroll";cin>>R;

fstream f2;

f2.open("F:/uma shankar/STUDENT.dat",ios::binary|ios::in);

f2.seekg(0,ios::beg);

int h=0;

while(!f2.eof())

{

f2.read((char\*)&S,sizeof(S));

if(R==S.ret\_roll())

{

S.DISPLAY();

h=1;

break;

}

}

if(h==0)

{

cout<<"\nSTUDENT RECORD IS NOT FOUND";

}

f2.close();

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

//MODIFY FUNCTION//

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

void MODIFY()

{

STUDENT S;

int c;

cout<<"\nenter enroll no whose record is to be modified:";

cin>>c;

fstream f3;

f3.open("F:/uma shankar/STUDENT.dat",ios::in|ios::out|ios::binary);

while(!f3.eof())

{

f3.read((char\*)&S,sizeof(S));

if(S.ret\_roll()==c)

{

long x=f3.tellg();

f3.seekg(x-sizeof(S));

cout<<"\nNew record to modify:";

S.CREATE();

f3.write((char\*)&S,sizeof(S));

break;

}

}

cout<<"\nrecord modified!";

f3.close();

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

//DELETE FUNCTION//

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

void DELETE()

{

STUDENT S;

int j;

cout<<"\nenter enroll no whose record is to be deleted:";cin>>j;

ifstream f4;

f4.open("F:/uma shankar/STUDENT.dat",ios::in|ios::binary);

ofstream f5;

f5.open("F:/uma shankar/STUDENT1.dat",ios::out|ios::binary);

while(!f4.eof())

{

f4.read((char\*)&S,sizeof(S));

if(S.ret\_roll()!=j)

{

f5.write((char\*)&S,sizeof(S));

}

}

f4.close();

f5.close();

remove("F:/uma shankar/STUDENT.dat");

rename("F:/uma shankar/STUDENT1.dat","F:/uma shankar/STUDENT.dat");

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

//ADD FUNCTION//

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

void ADD()

{

STUDENT S;

fstream f7;

f7.open("F:/uma shankar/STUDENT.dat",ios::in|ios::out|ios::app|ios::binary);

S.CREATE();

f7.write((char\*)&S,sizeof(S));

f7.close();

cout<<"\nStudent record added.";

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

//STUDENT DISPLAY FUNCTION//

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

void STUDENTDISPLAY()

{

STUDENT S;

fstream f;

f.open("F:/uma shankar/STUDENT.dat",ios::binary|ios::in);

cout<<"\n ALL STUDENTS RECORDS";

f.seekg(0,ios::beg);

while(!f.eof())

{

f.read((char\*)&S,sizeof(S));

S.DISPLAY();

getch();

}

f.close();

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

//STUDENT CREATE FUNCTION//

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

void STUD\_CREATE()

{

STUDENT S;

ofstream f1;

char A='Y';

f1.open("F:/uma shankar/STUDENT.dat",ios::binary|ios::in|ios::out);

while(A=='Y')

{

S.CREATE();

f1.write((char\*)&S,sizeof(S));

cout<<"\ndo u want to enter another record(Y\N):";cin>>A;

}

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

//BOOK RECORD//

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

//BOOK SEARCH FUNCTION//

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

void BSEARCH()

{ BOOK B;

int T,j=0;

` cout<<"\n enter book no";cin>>T;

fstream Q2;

Q2.open("F:/uma shankar/BOOK.dat",ios::in|ios::binary);

Q2.seekg(0,ios::beg);

while(!Q2.eof())

{

Q2.read((char\*)&B,sizeof(B));

if(T==B.ret\_bno())

{

B.BDISPLAY();

j=1;

break;

}

}

if(j==0)

{

cout<<"\nBOOK IS NOT FOUND";

}

Q2.close();

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

//BOOK MODIFY FUNCTION//

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

void BMODIFY()

{

BOOK B;

int p,ch,ch1;

cout<<"\nenter book no whose record is to be modified:";

cin>>p;

fstream Q3;

Q3.open("F:/uma shankar/BOOK.dat",ios::in|ios::out|ios::binary);

while(!Q3.eof())

{

Q3.read((char\*)&B,sizeof(B));

if(B.ret\_bno()==p)

{

long o=Q3.tellg();

Q3.seekg(o-sizeof(B),ios::beg);

cout<<"\nNew record to modify:";

cout<<"\nprice modification:";

cin>>ch;

cout<<"\nenter new price:";cin>>ch1;

B.set\_price(ch1);

Q3.write((char\*)&B,sizeof(B));

break;

}

}

Q3.close();

cout<<"\nRECORD IS MODIFIED!";

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

//BOOK DELETE FUNCTION//

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

void BDELETE()

{ BOOK B;

int d;

cout<<"\nenter book no whose record is to be deleted:";cin>>d;

ifstream Q4;

Q4.open("F:/uma shankar/BOOK.dat",ios::in|ios::binary);

ofstream Q5;

Q5.open("F:/uma shankar/BOOK1.dat",ios::out|ios::binary);

while(!Q4.eof())

{

Q4.read((char\*)&B,sizeof(B));

if(B.ret\_bno()!=d)

{

Q5.write((char\*)&B,sizeof(B));

}

}

Q4.close();

Q5.close();

remove("F:/uma shankar/BOOK.dat");

rename("F:/uma shankar/BOOK1.dat","F:/uma shankar/BOOK.dat");

cout<<"\nRECORD IS DELETED!";

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

//BOOK ADD FUNCTION//

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

void BADD()

{

BOOK B;

fstream Q6;

Q6.open("F:/uma shankar/BOOK.dat",ios::in|ios::out|ios::app|ios::binary);

B.BCREATE();

Q6.write((char\*)&B,sizeof(B));

Q6.close();

cout<<"\nBOOK record added.";

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

//BOOK DISPLAY FUNCTION//

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

void BOOKDISPLAY()

{

fstream Q;

BOOK B;

Q.open("F:/uma shankar/BOOK.dat",ios::binary|ios::in);

Q.seekg(0,ios::beg);

while(!Q.eof())

{

Q.read((char\*)&B,sizeof(B));

B.BDISPLAY();

getch();

}

Q.close();

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

//BOOK CREATE FUNCTION//

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

void BOOK\_CREATE()

{

BOOK B;

char Z='W';

ofstream Q1;

Q1.open("F:/uma shankar/BOOK.dat",ios::binary|ios::out);

while(Z=='W')

{

B.BCREATE();

Q1.write((char\*)&B,sizeof(B));

cout<<"\ndo u want to enter another record(W\N):";cin>>Z;

}

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

//BOOK ISSSUE//

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

//BOOK SEARCH FUNCTION//

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

void BBSEARCH()

{ BOOK B;

int T1;

cout<<"\n enter book no";cin>>T1;

fstream I3;

I3.open("F:/uma shankar/BOOK.dat",ios::in|ios::binary|ios::out);

I3.seekg(0,ios::beg);

while(!I3.eof())

{

I3.read((char\*)&B,sizeof(B));

if(T1==B.ret\_bno())

{

B.set\_qty();

B.BDISPLAY();

I3.seekp(I3.tellp()-sizeof(B),ios::beg);

I3.write((char\*)&B,sizeof(B));

//B.tot\_book();

break;

}

}

I3.close();

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

void set()

{

int SNO, flag=0;

STUDENT S;

cout<<"\nenter STUDENT NO:";cin>>SNO;

fstream I;

I.open("F:/uma shankar/STUDENT.dat",ios::binary|ios::in|ios::out);

I.seekg(0,ios::beg);

while(!I.eof())

{

I.read((char\*)&S,sizeof(S));

if(SNO==S.ret\_roll())

{

//BBSEARCH();

flag=1;

S.DOI();

I.seekp(I.tellp()-sizeof(S),ios::beg);

I.write((char\*)&S,sizeof(S));

break;

}

}

if(flag==1)

{

BBSEARCH();

S.get\_nob();

I.seekp(I.tellp()-sizeof(S),ios::beg);

I.write((char\*)&S,sizeof(S));

I.close();

}

else

{

cout<<"\nStudent not found";

I.close();

}

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

//BOOK DEPOSIT//

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

//DEPOSIT SEARCH FUNCTION//

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

void DSEARCH()

{

BOOK B;

int T2;

cout<<"\n enter book no";cin>>T2;

fstream Z3;

Z3.open("F:/uma shankar/BOOK.dat",ios::in|ios::binary|ios::out);

Z3.seekg(0,ios::beg);

while(!Z3.eof())

{

Z3.read((char\*)&B,sizeof(B));

if(T2==B.ret\_bno())

{

B.get\_qty();

B.BDISPLAY();

Z3.seekp(Z3.tellp()-sizeof(B),ios::beg);

Z3.write((char\*)&B,sizeof(B));

//B.tot\_book();

break;

}

}

Z3.close();

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

void get()

{

int stno,flag1=0;

cout<<"\nenter student no";cin>>stno;

STUDENT S;

BOOK B;

fstream Z;

Z.open("F:/uma shankar/STUDENT.dat",ios::binary|ios::in|ios::out);

Z.seekg(0,ios::beg);

while(!Z.eof())

{

Z.read((char\*)&S,sizeof(S));

if(stno==S.ret\_roll())

{

flag1=1;

S.DOR();

Z.seekp(Z.tellp()-sizeof(S),ios::beg);

Z.write((char\*)&S,sizeof(S));

S.calc\_fine();

break;

}

}

if(flag1==1)

{

DSEARCH();

S.set\_nob();

Z.seekp(Z.tellp()-sizeof(S),ios::beg);

Z.write((char\*)&S,sizeof(S));

S.f\_fine();

Z.close();

}

else

{

cout<<"\nStudent not found";

Z.close();

}

}

void main()

{

int x,N;

char ans='y', ANS='s';

fstream f1;

STUDENT S;

BOOK B;

cout<<"\n MAIN MENU";

while(ans=='y')

{

MAINMENU:

cout<<"\n1.BOOK ISSUE";

cout<<"\n2.BOOK DEPOSIT";

cout<<"\n3.ADMINISTRATOR MENU";

cout<<"\n4.EXIT";

cin>>x;

clrscr();

switch(x)

{

case 1:

cout<<"BOOK ISSUE";

set();

cout<<"\nBOOK IS ISSUED";

cout<<"\nNOTE:book must be returned within ten days.";

cout<<"\nfine-5 rupee per day";

break;

case 2:

cout<<"BOOK DEPOSIT";

get();

break;

case 3:

clrscr();

while(ANS=='s')

{

cout<<"\n1.CREATE STUDENT RECORD";

cout<<"\n2.DISPLAY ALL STUDENT RECORDS";

cout<<"\n3.DISPLAY SPECIFIC STUDENT RECORD";

cout<<"\n4.MODIFY STUDENT RECORD";

cout<<"\n5.DELETE STUDENT RECORD";

cout<<"\n6.ADD STUDENT RECORD";

cout<<"\n7.CREATE BOOK RECORD";

cout<<"\n8.DISPLAY ALL BOOKS RECORD";

cout<<"\n9.DISPLAY SPECIFIC BOOK RECORD";

cout<<"\n10.MODIFY BOOK RECORD";

cout<<"\n11.DELETE BOOK RECORD";

cout<<"\n12.ADD BOOK RECORD";

cout<<"\n13.BACK TO MAIN MENU";

cin>>N;

clrscr();

switch(N)

{

case 1:

cout<<"\nSTUDENT RECORDS";

STUD\_CREATE();

break;

case 2:

STUDENTDISPLAY();

break;

case 3:

SEARCH();

break;

case 4:

MODIFY();

break;

case 5:

DELETE();

break;

case 6:

ADD();

break;

case 7:

cout<<"\nBOOK RECORDS";

BOOK\_CREATE();

break;

case 8:

cout<<"\n ALL BOOK RECORDS";

BOOKDISPLAY();

break;

case 9:

BSEARCH();

break;

case 10:

BMODIFY();

break;

case 11:

BDELETE();

break;

case 12:

BADD();

break;

case 13:

goto MAINMENU;

deafult:

cout<<"\nwrong choice.";

}

cout<<"\nmore operation(s/t)";cin>>ANS;

clrscr();

}

case 4:

exit(0);

}

cout<<"\nmore operations?(y/n):";cin>>ans;

}

}