#include<iostream>   
#include<fstream>   
#include<stdio.h>   
#include<stdlib.h>   
#include<conio.h>   
#include<string.h>   
#include<process.h>   
using namespace std;   
void calc()   
{   
    cout<<"\n\n  Yes. Thats correct !! ";   
    getch();   
}   
  
void wrong()   
{   
    cout<<"\n\n  Sorry !! Your Answer is wrong!!";   
    getch();   
}   
  
int c1()   
{   
    char k;   
    int a=0;   
    system("cls");   
    cout<<"\n1.THE AREA OF CIRCLE OF RADIUS 5(CM) IS:- "<<endl;   
    cout<<"\n (a) 25pi "<<endl;   
    cout<<"\n (b) 16 pi"<<endl;   
    cout<<"\n (c) 10pi "<<endl;   
    cout<<"\n (d) 15pi "<<endl;   
    cin>>k;   
    if(k=='a')   
    {   
        calc();   
        a++;   
    }   
    else   
        wrong();   
        system("cls");   
    cout<<"\n2.THE PERMITER OF CIRCLE OF RADIUS 8(CM) IS:- "<<endl;   
    cout<<"\n (a) 16pi "<<endl;   
    cout<<"\n (b) 10 pi"<<endl;   
    cout<<"\n (c) 11pi "<<endl;   
    cout<<"\n (d) 19pi "<<endl;   
    cin>>k;   
    if(k=='a')   
    {   
        calc();   
        a++;   
    }   
    else   
        wrong();   
        system("cls");   
    cout<<"\n3.THE RADIUS OF ANY CIRCLE IS:- "<<endl;   
    cout<<"\n (a) HALF OF THE DIAMETER OF CIRCLE"<<endl;   
    cout<<"\n (b) TWICE THE DIAMETER OF CIRCLE"<<endl;   
    cout<<"\n (c) THE DIAMETER OF CIRCLE "<<endl;   
    cout<<"\n (d) NONE OF THE ABOVE"<<endl;   
    cin>>k;   
    if(k=='a')   
    {   
        calc();   
        a++ ;   
    }   
    else   
        wrong();   
        system("cls");   
    cout<<"\n4.THE TANGENT OF ANY CIRCLE IS:- "<<endl;   
    cout<<"\n (a) PARALLEL TO CIRCLE"<<endl;   
    cout<<"\n (b) PERPENDICULAR TO CIRCLE"<<endl;   
    cout<<"\n (c) PERPENDICULAR DIAMETER OF CIRCLE "<<endl;   
    cout<<"\n (d) NONE OF THE ABOVE"<<endl;   
    cin>>k;   
    if(k=='b')   
    {   
        calc();   
        a++  ;   
    }   
    else   
        wrong();   
         system("cls");   
    cout<<"\n5.THE RADIUS OF A CIRCLE IS";   
    cout<<"\n (a) NOT CONSTANT"<<endl;   
    cout<<"\n (b) VARIABLE"<<endl;   
    cout<<"\n (c) ALWAYS CONSTANT "<<endl;   
    cout<<"\n (d) NONE OF THE ABOVE"<<endl;   
    cin>>k;   
    if(k=='c')   
    {   
        calc();   
        a++  ;   
    }   
    else   
        wrong();   
         system("cls");   
    cout<<"\n6 HALF OF A CIRCLE IS";   
    cout<<"\n (a) PARABOLA"<<endl;   
    cout<<"\n (b) RECTANGLE"<<endl;   
    cout<<"\n (c) SQUARE"<<endl;   
    cout<<"\n (d) SEMI CIRCLE"<<endl;   
    cin>>k;   
    if(k=='d')   
    {   
        calc();   
        a++   ;   
    }   
    else   
        wrong();   
         system("cls");   
    cout<<"\n7.THE RATIO OF AREA OF CIRCLE AND SEMI-CIRCLE IS";   
    cout<<"\n (a) 1:4"<<endl;   
    cout<<"\n (b) 1:3"<<endl;   
    cout<<"\n (c) 2:1 "<<endl;   
    cout<<"\n (d) 4:1"<<endl;   
    cin>>k;   
    if(k=='c')   
    {   
        calc();   
        a++    ;   
    }   
    else   
        wrong();   
         system("cls");   
    cout<<"\n8.THE CORD OF CIRCLE CAN BE";   
    cout<<"\n (a) RADIUS"<<endl;   
    cout<<"\n (b) DIAMETER"<<endl;   
    cout<<"\n (c) TANGENT"<<endl;   
    cout<<"\n (d) NONE OF THE ABOVE"<<endl;   
    cin>>k;   
    if(k=='b')   
    {   
        calc();   
        a++     ;   
    }   
    else   
        wrong();   
         system("cls");   
    cout<<"\n9.ACUTE CIRCLE HAS ANGLE (DEGREES)";   
    cout<<"\n (a) LESS THAN 90"<<endl;   
    cout<<"\n (b) MORE THAN 90"<<endl;   
    cout<<"\n (c) EQUAL TO 90"<<endl;   
    cout<<"\n (d) NONE OF THE ABOVE"<<endl;   
    cin>>k;   
    if(k=='a')   
    {   
        calc();   
        a++      ;   
    }   
    else   
        wrong();   
         system("cls");   
    cout<<"\n10.A CIRCLE CAN BE MADE INTO:";   
    cout<<"\n (a) ELLIPSE"<<endl;   
    cout<<"\n (b) RECTANGLE"<<endl;   
    cout<<"\n (c) SQUARE"<<endl;   
    cout<<"\n (d) NONE OF THE ABOVE"<<endl;   
    cin>>k;   
    if(k=='d')   
    {   
        calc();   
        a++       ;   
    }   
    else   
        wrong();   
         system("cls");   
    cout<<"YOUR SCORE OUT OF 10 IS  :  "<<a<<endl;;   
    if(a<=5)   
        cout<<"\n You need to improve in geometry !! Take your lessons carefully..";   
    if(a>=5 && a<=7)   
        cout<<"\n You are good in geometry !!";   
    if(a>=8)   
        cout<<"\n You are very good in geometry !! Good Job!";   
    return a;   
}   
int c2()   
{   
    char k;   
    int b=0;   
     system("cls");   
    cout<<"\n1.AREA OF SQUARE IS ";   
    cout<<"\n (a) (DIAGONAL)^2/2"<<endl;   
    cout<<"\n (b) SIDE"<<endl;   
    cout<<"\n (c) TWICE DIAGONAL "<<endl;   
    cout<<"\n (d) NONE OF THE ABOVE"<<endl;   
    cin>>k;   
    if(k=='a')   
    {   
        calc();   
        b++;   
    }   
    else   
        wrong();   
         system("cls");   
    cout<<"\n2.WHEN THE SIDE OF SQUARE IS DOUBLED,AREA OF SQUARE IS ";   
    cout<<"\n (a) DOUBLED"<<endl;   
    cout<<"\n (b) TRIPLED"<<endl;   
    cout<<"\n (c) 4 TIMES "<<endl;   
    cout<<"\n (d) 3 TIMES"<<endl;   
    cin>>k;   
    if(k=='c')   
    {   
        calc();   
        b++;   
    }   
    else   
        wrong();   
         system("cls");   
    cout<<"\n3.AREA OF SQUARE OF DIAGONAL 2CM (IN CM^2) ";   
    cout<<"\n (a) 2"<<endl;   
    cout<<"\n (b) 3"<<endl;   
    cout<<"\n (c) 4 "<<endl;   
    cout<<"\n (d) NONE OF THE ABOVE"<<endl;   
    cin>>k;   
    if(k=='a')   
    {   
        calc();   
        b++;   
    }   
    else   
        wrong();   
         system("cls");   
    cout<<"\n4.SQUARE IS ";   
    cout<<"\n (a) RECTANGLE"<<endl;   
    cout<<"\n (b) CIRCLE"<<endl;   
    cout<<"\n (c) TRAPEZIUM "<<endl;   
    cout<<"\n (d) NONE OF THE ABOVE"<<endl;   
    cin>>k;   
    if(k=='a')   
    {   
        calc();   
        b++;   
    }   
    else   
        wrong();   
         system("cls");   
    cout<<"\n5.PERIMETER OF SQUARE OF LENGTH 4 CM IS (IN CM^2) ";   
    cout<<"\n (a) 15"<<endl;   
    cout<<"\n (b) 17"<<endl;   
    cout<<"\n (c) 16 "<<endl;   
    cout<<"\n (d) 29"<<endl;   
    cin>>k;   
    if(k=='a')   
    {   
        calc();   
        b++;   
    }   
    else   
        wrong();   
         system("cls");   
    cout<<"\n6.PERIMETER OF SQUARE IS  ";   
    cout<<"\n (a) EQUAL TO ITS SIDE"<<endl;   
    cout<<"\n (b) LESSE THAN ITS SIDE"<<endl;   
    cout<<"\n (c) TWICE ITS SIDE "<<endl;   
    cout<<"\n (d) 4 TIMES ITS SIDE"<<endl;   
    cin>>k;   
    if(k=='d')   
    {   
        calc();   
        b++;   
    }   
    else   
        wrong();   
         system("cls");   
    cout<<"\n6.PERIMETER OF SQUARE OF DIAGONAL 2 CM IS (in cm): ";   
    cout<<"\n (a) 2/root(2)"<<endl;   
    cout<<"\n (b) root(2)"<<endl;   
    cout<<"\n (c) 3"<<endl;   
    cout<<"\n (d) 25"<<endl;   
    cin>>k;   
    if(k=='a')   
    {   
        calc();   
        b++;   
    }   
    else   
        wrong();   
         system("cls");   
    cout<<"\n7.DIAGONALS OF SQUARE";   
    cout<<"\n (a) ALWAYS EQUAL"<<endl;   
    cout<<"\n (b) NOT EQUAL"<<endl;   
    cout<<"\n (c) PERPENDICULAR "<<endl;   
    cout<<"\n (d) NONE OF THE ABOVE"<<endl;   
    cin>>k;   
    if(k=='a')   
    {   
        calc();   
        b++;   
    }   
    else   
        wrong();   
         system("cls");   
    cout<<"\n8.SQUARE IN 3D IS";   
    cout<<"\n (a) CUBE"<<endl;   
    cout<<"\n (b) CUBOID"<<endl;   
    cout<<"\n (c) SQUARE "<<endl;   
    cout<<"\n (d) NONE OF THE ABOVE"<<endl;   
    cin>>k;   
    if(k=='a')   
    {   
        calc();   
        b++;   
    }   
    else   
        wrong();   
         system("cls");   
    cout<<"\n9.LOCUS OF ALL POINTS OF CENTRE OF SQUARE IS";   
    cout<<"\n (a) TRIANGLE"<<endl;   
    cout<<"\n (b) CIRCLE"<<endl;   
    cout<<"\n (c) RECTANGLE"<<endl;   
    cout<<"\n (d) SQUARE"<<endl;   
    cin>>k;   
    if(k=='d')   
    {   
        calc();   
        b++;   
    }   
    else   
        wrong();   
         system("cls");   
    cout<<"\n10.THE AREA OF SQUARE OF LENGTH 8CM INSCRIBED IN CIRCLE OF RADIUS 1CM IS";   
    cout<<"\n (a) 16"<<endl;   
    cout<<"\n (b) 1"<<endl;   
    cout<<"\n (c) 64 "<<endl;   
    cout<<"\n (d) 25"<<endl;   
    cin>>k;   
    if(k=='c')   
    {   
        calc();   
        b++;   
    }   
    else   
        wrong();   
         system("cls");   
    cout<<"\nYOUR SCORE OUT OF 10 IS  "<<b<<endl;   
    if(b<=5)   
        cout<<"\nYou need to improve in geometry";   
    if(b>=5 && b<=7)   
        cout<<"\nYou are good in geometry";   
    if(b>=8)   
        cout<<"\nYou are very good in geometry";   
        return b;   
}   
  
int c3()   
{   
    char k;   
    int c=0;   
    cout<<"\n1.Oblique planes in a three-view drawing will appear as:";   
    cout<<"\n (a)two surfaces and one edge"<<endl;   
    cout<<"\n (b) two edges and one surface"<<endl;   
    cout<<"\n (c) three edges "<<endl;   
    cout<<"\n (d) three surfaces"<<endl;   
    cin>>k;   
    if(k=='a')   
    {   
        calc();   
        c++;   
    }   
    else   
        wrong();   
         system("cls");   
    cout<<"\n2.WHICH OF THESE ARE 3-D STRUCTURES";   
    cout<<"\n (a) TRAPEZIOD"<<endl;   
    cout<<"\n (b) SQUARE"<<endl;   
    cout<<"\n (c) LINES"<<endl;   
    cout<<"\n (d) NONE OF THE ABOVE"<<endl;   
    cin>>k;   
    if(k=='a')   
    {   
        calc();   
        c++;   
    }   
    else   
        wrong();   
         system("cls");   
    cout<<"\n3.A PYRAMID IS ";   
    cout<<"\n (a) ONE SQUARE AND 3 EQUILATERAL TRIANGLES"<<endl;   
    cout<<"\n (b) TW0 SQUARE AND 3 EQUILATERAL TRIANGLES"<<endl;   
    cout<<"\n (c) THREE SQUARE AND 3 EQUILATERAL TRIANGLES "<<endl;   
    cout<<"\n (d) ONE SQUARE AND 2 EQUILATERAL TRIANGLES"<<endl;   
    cin>>k;   
    if(k=='c')   
    {   
        calc();   
        c++;   
    }   
    else   
        wrong();   
        system("cls");   
    cout<<"\n4.CONE IS COMBINATION OF";   
    cout<<"\n (a) SQUARE AND TRIANGLE"<<endl;   
    cout<<"\n (b) TRIANGLE AND CIRCLE"<<endl;   
    cout<<"\n (c) LINES"<<endl;   
    cout<<"\n (d) NONE OF THE ABOVE"<<endl;   
    cin>>k;   
    if(k=='b')   
    {   
        calc();   
        c++;   
    }   
    else   
        wrong();   
         system("cls");   
    cout<<"\n5 RECTANGULAR PRISM IS";   
    cout<<"\n (a) PYRAMID WITH BASE RECTANGLE"<<endl;   
    cout<<"\n (b) PRISM WITH SIDES RECTANGLE"<<endl;   
    cout<<"\n (c) PYRAMID WITH SIDES RECTANGLE"<<endl;   
    cout<<"\n (d) NONE OF THE ABOVE"<<endl;   
    cin>>k;   
    if(k=='c')   
    {   
        calc();   
        c++;   
    }   
    else   
        wrong();   
         system("cls");   
    cout<<"\n6.A CIRCULAR BASED CYLINDRICAL PRISM";   
    cout<<"\n (a) PARELLOPIPPED"<<endl;   
    cout<<"\n (b) PYRAMID"<<endl;   
    cout<<"\n (c) CYLINDER"<<endl;   
    cout<<"\n (d) NONE OF THE ABOVE"<<endl;   
    cin>>k;   
    if(k=='b')   
    {   
        calc();   
        c++;   
    }   
    else   
        wrong();   
         system("cls");   
    cout<<"\n7.KALEIDOSCOPE IS COMBINATION OF";   
    cout<<"\n (a) TRIANGLE AND RECTANGLE"<<endl;   
    cout<<"\n (b) SQUARE WITH RECTANGLE"<<endl;   
    cout<<"\n (c) PLANES"<<endl;   
    cout<<"\n (d) NONE OF THE ABOVE"<<endl;   
    cin>>k;   
    if(k=='b')   
    {   
        calc();   
        c++;   
    }   
    else   
        wrong();   
         system("cls");   
    cout<<"\n8.A 3D STRUCTURE IS PROJECTION OF\_\_\_\_\_ OF 2D PLANE";   
    cout<<"\n (a) LENGTH"<<endl;   
    cout<<"\n (b) BASE"<<endl;   
    cout<<"\n (c) LINES"<<endl;   
    cout<<"\n (d) HEIGHT"<<endl;   
    cin>>k;   
    if(k=='d')   
    {   
        calc();   
        c++;   
    }   
    else   
        wrong();   
         system("cls");   
    cout<<"\n9.VOLUME OF TRIANGULAR PRISM WHERE AREA OF TRIANGLE IS 4 AND HEIGHT IS 3 UNITS";   
    cout<<"\n (a) 144"<<endl;   
    cout<<"\n (b) 12"<<endl;   
    cout<<"\n (c) 7"<<endl;   
    cout<<"\n (d) NONE OF THE ABOVE"<<endl;   
    cin>>k;   
    if(k=='b')   
    {   
        calc();   
        c++;   
    }   
    else   
        wrong();   
         system("cls");   
    cout<<"\n10.A PRISM REDUCED TO ITS BASE IS ";   
    cout<<"\n (a) TRIANGLE"<<endl;   
    cout<<"\n (b) SQUARE"<<endl;   
    cout<<"\n (c) LINE"<<endl;   
    cout<<"\n (d) NONE OF THE ABOVE"<<endl;   
    cin>>k;   
    if(k=='a')   
    {   
        calc();   
        c++;   
    }   
    else   
        wrong();   
         system("cls");   
    cout<<"\nYOUR SCORE OUT OF 10 IS "<<c<<endl;   
    if(c<=5)   
        cout<<"\nYou need to improve in geometry !! ";   
    if(c>=5 && c<=7)   
        cout<<"\nYou are good in geometry !! ";   
    if(c>=8)   
        cout<<"\nYou are very good in geometry !! ";   
        return c;   
}   
int quiz(char name[50])   
{   
    int choice5=0;   
    //char name[50];   
    //cout<<"\n ENTER THE NAME:-";   
    //gets(name);   
    int totmarks;   
    system("cls");   
    cout<<"\n \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*";   
    cout<<"\n \*\* WELCOME TO THE GEOMETRY QUIZ  "<<name << "!! ";   
    cout<<"\n \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*";   
    cout<<"\n\n\n 1) HERE YOU WILL BE ASKED A QUESTION AND FOUR OPTIONS INCLUDED";   
    cout<<"\n2) THREE OPTIONS ARE WRONG AND ONLY ONE IS CORRECT";   
    cout<<"\n3) FOR EACH CORRECT ANSWER,1 MARK IS AWARDED"<<endl;   
    getch();   
q:   
    system("cls");   
    cout << "\*\*\* Geometry Menu \*\*\*" << endl << endl;   
    cout << "Please choose a topic below" << endl;   
    cout << "---------------------------" << endl;   
    cout << "      1. Circles" << endl;   
    cout << "      2. Squares" << endl;   
    cout << "      3. Planes" << endl;   
    cout << "     --------------" << endl;   
    cout << "\n Your choice? (1-3): ";   
    cin >> choice5;   
    if(choice5==1)   
    {   
        system("cls");   
        totmarks=c1();   
    }   
    else if(choice5==2)   
    {   
        system("cls");   
        totmarks=c2();   
    }   
    else if(choice5==3)   
    {   
        system("cls");   
        totmarks=c3();   
    }   
    cout<<"\n Would you like to take up any other topic \n to improve your score in geometry? (Y/N) :";   
    char choicequiz;   
    cin>>choicequiz;   
    if(choicequiz=='Y'||choicequiz=='y')   
    goto q;   
    return totmarks;   
}   
  
class user   
{   
    int roll,classno,marks,usno;   
    char nm[31],sec;   
public:   
    void input(int x,char name[50])   
    {   
        //cout<<"\n Enter Name : ";   
        //cin>>nm;   
        strcpy(nm,name);   
        cout<<"\n Enter Class : ";   
        cin>>classno;   
        cout<<"\t Section: ";   
        cin>>sec;   
        cout<<"\n Enter rollno : ";   
        cin>>roll;   
        //cout<<"\n Enter marks obtained : ";   
        //cin>>marks;   
        usno=x;   
    }   
    void inputmarks(int mark)   
    {   
        marks=mark;   
    }   
    void show()   
    {   
        cout<<"\n \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \n USER NO : "<<usno;   
        cout<<"\n -------------------------------------";   
        cout<<"\n Name : ";   
        cout<<nm;   
        cout<<"\n Class : "<<classno<<"     Section: "<<sec;   
        cout<<"\n Roll No : "<<roll;   
        cout<<"\n Marks obtained : "<<marks/10\*100<<" % ";   
    }   
    int getusno()   
    {   
        return usno;   
    }   
    int getclass()   
    {   
        return classno;   
    }   
    int getroll()   
    {   
        return roll;   
    }   
    char getsec()   
    {   
        return sec;   
    }   
    int compname(char x[31])   
    {   
        if(strcmp(x,nm))   
            return 0;   
        else   
            return 1;   
    }   
};   
int main()   
{   
    //write,read,show   
start:   
    ofstream wf;   
    ifstream rf;   
     user u;   
    system("cls");   
wc:   
    cout<<"\n MENU : \n 1)TAKE QUIZ \n 2)READ RECORD(ALL) \n 3)READ RECORD(by any key word) \n 4)DELETE ANY RECORD \n 5)ADMIN CONTROLS \n 6) EXIT!";   
    int choice;   
    cout<<"\n Enter choice: ";   
    cin>>choice;   
  
   //a->usno   
    if(choice==1)   
    {   
        system("cls");   
        //write((char\*)&u,sizeof(u));   
wf.open("data.dat",ios::app|ios::binary);         //no of recs   
    int m=wf.tellp();   
    wf.seekp(0,ios::end);   
    int n=wf.tellp();   
    int sof=n-m;   
    int a=(sof/sizeof(u));   
            a=a+1;   
            cout<<"\n Enter your name : ";   
            char entname[50];   
            cin>>entname;   
            u.input(a,entname);   
            int markse=quiz(entname);   
            u.inputmarks(markse);   
            system("cls");   
            wf.write((char\*)&u,sizeof(u));   
            system("cls");   
        wf.close();   
        goto start;   
    }   
    else if(choice==2)   
    {   
        system("cls");   
        cout<<"\n\t \_\_\_\_\_RECORD DATABASE\_\_\_\_\_";   
        rf.open("data.dat",ios::in);   
        rf.read((char\*)&u,sizeof(u));   
        while(rf)   
        {   
            u.show();   
            rf.read((char\*)&u,sizeof(u));   
        }   
        rf.close();   
        cout<<"\n \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \n To go to menu press ENTER! ";   
        getch();   
        goto start;   
    }   
    else if(choice==3)   
    {   
start3:   
        system("cls");   
        cout<<"\n READ BY: \n1) Name\n2) Class\n3) Section\n4) User No\n5)Roll No \nENTER CHOICE:";   
        int cho3;   
        cin>>cho3;   
        if(cho3==1)   
        {   
start3\_1:   
            system("cls");   
            cout<<"\n Enter name to see the record : ";   
            char name[31];   
            int found=0;   
            cin>>name;   
            rf.open("data.dat",ios::in);   
            rf.read((char\*)&u,sizeof(u));   
            while(rf)   
            {   
                if(u.compname(name)!=0)   
                {   
                    found=1;   
                    u.show();   
                }   
                rf.read((char\*)&u,sizeof(u));   
            }   
            rf.close();   
            if(found==0)   
                cout<<"\n Record  with such name not found ! ";   
            cout<<"\n Do you want to view any other record ? (Y/N) : ";   
            char cho='Y';   
            cin>>cho;   
            if(cho=='Y'||cho=='y')   
                goto start3\_1;   
        }   
        else if(cho3==2)   
        {   
start3\_2:   
            system("cls");   
            cout<<"\n Enter class to see the record : ";   
            int classno,found=0;   
            cin>>classno;   
            rf.open("data.dat",ios::in);   
            rf.read((char\*)&u,sizeof(u));   
            while(rf)   
            {   
                if(classno==u.getclass())   
                {   
                    found=1;   
                    u.show();   
                }   
                rf.read((char\*)&u,sizeof(u));   
            }   
            rf.close();   
            if(found==0)   
                cout<<"\n Record with such class no not found ! ";   
            cout<<"\n Do you want to view any other record ? (Y/N) : ";   
            char cho='Y';   
            cin>>cho;   
            if(cho=='Y'||cho=='y')   
                goto start3\_2;   
        }   
        else if(cho3==3)   
        {   
start3\_3:   
            system("cls");   
            cout<<"\n Enter section to see the record : ";   
            char section;   
            int found=0;   
            cin>>section;   
            rf.open("data.dat",ios::in);   
            rf.read((char\*)&u,sizeof(u));   
            while(rf)   
            {   
                if(section==u.getsec())   
                {   
                    found=1;   
                    u.show();   
                }   
                rf.read((char\*)&u,sizeof(u));   
            }   
            rf.close();   
            if(found==0)   
                cout<<"\n Record with such a section not found ! ";   
            cout<<"\n Do you want to view any other record ? (Y/N) : ";   
            char cho='Y';   
            cin>>cho;   
            if(cho=='Y'||cho=='y')   
                goto start3\_3;   
        }   
        else if(cho3==4)   
        {   
start3\_4:   
            system("cls");   
            cout<<"\n Enter user no to see the record : ";   
            int userno,found=0;   
            cin>>userno;   
            rf.open("data.dat",ios::in);   
            rf.read((char\*)&u,sizeof(u));   
            while(rf)   
            {   
                if(userno==u.getusno())   
                {   
                    found=1;   
                    u.show();   
                }   
                rf.read((char\*)&u,sizeof(u));   
            }   
            rf.close();   
            if(found==0)   
                cout<<"\n Record with such a user no not found ! ";   
            cout<<"\n Do you want to view any other record ? (Y/N) : ";   
            char cho='Y';   
            cin>>cho;   
            if(cho=='Y'||cho=='y')   
                goto start3\_4;   
        }   
        else if(cho3==5)   
        {   
start3\_5:   
            system("cls");   
            cout<<"\n Enter roll no to see the record : ";   
            int rollno,found=0;   
            cin>>rollno;   
            rf.open("data.dat",ios::in);   
            rf.read((char\*)&u,sizeof(u));   
            while(rf)   
            {   
                if(rollno==u.getroll())   
                {   
                    found=1;   
                    u.show();   
                }   
                rf.read((char\*)&u,sizeof(u));   
            }   
            rf.close();   
            if(found==0)   
                cout<<"\n record with such a rol no not found ! " ;   
            cout<<"\n Do you want to view any other record ? (Y/N) : ";   
            char cho='Y';   
            cin>>cho;   
            if(cho=='Y'||cho=='y')   
                goto start3\_5;   
        }   
        else   
        {   
            system("cls");   
            cout<<"\n ENTER A VALID CHOICE!!";   
            getch();   
            goto start3;   
        }   
        char cho3main='N';   
        cout<<"\n Do you want to view any record by any other key word ? (y/n) ";   
        cin>>cho3main;   
        if(cho3main=='y'||cho3main=='Y')   
            goto start3;   
        goto start;   
    }   
    else if(choice==4)   
    {   
        system("cls");   
        fstream rf;//doubtful   
        cout<<"\n PASSWORD CHECK"<<endl;   
        char ch[31],m[31],c;   
        rf.open("password.txt");   
        if(rf!=NULL)   
        {   
        cout<<"\n Enter the password : ";   
        cin>>ch;   
        rf>>c;   
         int i=0;   
        while(rf)   
        {   
  
            m[i]=c;   
            rf>>c;   
            i++;   
        }   
        rf.close();   
        if(strcmp(ch,m)==1)   
        {   
            cout<<"\n BAD LUCK ;) PASSWORD INCORRECT ! ";   
            getch();   
            goto start;   
  
        }   
        else   
        {   
             cout<<"\n PASSWORD CORRECT ! \n Press ENTER to continue! ";   
            // system("cls");   
            getch();   
            goto start4;   
        }   
        }   
start4:   
        system("cls");   
        cout<<"\n DELETE RECORD BY : ";   
        cout<<"\n 1) USER NO. \n 2) NAME \n 3) CLASS \n 4) ROLL NO. \n 5) SECTION \n 6) GO BACK \n";   
        int choicedel;   
        cout<<"\n Enter Choice : ";   
        cin>>choicedel;   
        if(choicedel==1)   
        {   
             start41:   
            system("cls");   
            wf.open("temp.dat",ios::app|ios::binary);   
            rf.open("data.dat",ios::in);   
            cout<<"\n Enter user no of the rec to be deleted : ";   
            int usern;   
            cin>>usern;   
            int found=0,found1=0;   
            rf.read((char\*)&u,sizeof(u));   
            while(rf)   
            {   
                if(u.getusno()==usern)   
                {   
                    found=1;   
                    cout<<endl;   
                    u.show();   
                    cout<<"\n Are you sure you want to delete this record ? (y/n) : ";   
                    char choiceconf;   
                    cin>>choiceconf;   
                    if(choiceconf=='N'||choiceconf=='n')   
                    {   
                        wf.write((char\*)&u,sizeof(u));   
                        found1=1;   
                    }   
                }   
                else //if(u.getusno()!=usern)   
                {   
                    wf.write((char\*)&u,sizeof(u));   
                }   
  
                rf.read((char\*)&u,sizeof(u));   
            }   
            wf.close();   
            rf.close();   
            if(found==1)   
            {   
  
                if(found1==0)   
                {   
                    cout<<"\n Record with user no : "<<usern<<" was deleted successfully !! ";   
                    remove("data.dat");   
                    rename("temp.dat","data.dat");   
                }   
                else   
                {   
                    cout<<"\n Record with user no : "<<usern<<"  was not deleted ! ! ";   
                    remove("temp.dat");   
                }   
  
            }   
            else if(found==0)   
            {   
                cout<<"\n Record with user no : "<<usern<<" was not found, hence deletion unsuccessful ! ";   
                remove("temp.dat");   
            }   
            cout<<"\n Do you want to delete any other record ? (Y/N) : ";   
            char cho4;   
            cin>>cho4;   
            if(cho4=='Y'||cho4=='y')   
            {   
                goto start41;   
            }   
            cout<<"\n Do You want to delete record with any other key word ? (Y/N) : ";   
            char cho5;   
            cin>>cho5;   
            if(cho5=='Y'||cho5=='y')   
            {   
                goto start4;   
            }   
            //getch();   
            system("cls");   
            goto start;   
            }   
         else if(choicedel==2)//choice2->name   
        {   
            start42:   
            system("cls");   
            wf.open("temp.dat",ios::app|ios::binary);   
            rf.open("data.dat",ios::in);   
            cout<<"\n Enter name of the rec to be deleted : ";   
            char name[31];   
            cin>>name;   
            int found=0,found1=0;   
            rf.read((char\*)&u,sizeof(u));   
            while(rf)   
            {   
                if(u.compname(name)!=0)   
                {   
                    found=1;   
                    cout<<endl;   
                    u.show();   
                    cout<<"\n Are you sure you want to delete this record ? (y/n) : ";   
                    char choiceconf;   
                    cin>>choiceconf;   
                    if(choiceconf=='N'||choiceconf=='n')   
                    {   
                        wf.write((char\*)&u,sizeof(u));   
                        found1=1;   
                    }   
                }   
                else //if(u.getusno()!=usern)   
                {   
                    wf.write((char\*)&u,sizeof(u));   
                }   
  
                rf.read((char\*)&u,sizeof(u));   
            }   
            wf.close();   
            rf.close();   
            if(found==1)   
            {   
                if(found1==0)   
                {   
                    cout<<"\n Record with name : "<<name<<" was deleted successfully !! ";   
                    remove("data.dat");   
                    rename("temp.dat","data.dat");   
                }   
                else   
                {   
                    cout<<"\n Record with name : "<<name<<"  was not deleted ! ! ";   
                    remove("temp.dat");   
                }   
  
            }   
            else if(found==0)   
            {   
                cout<<"\n Record with name : "<<name<<" was not found, hence deletion unsuccessful ! ";   
                remove("temp.dat");   
            }   
            cout<<"\n Do you want to delete any other record ? (Y/N) : ";   
            char cho4;   
            cin>>cho4;   
            if(cho4=='Y'||cho4=='y')   
            {   
                goto start42;   
            }   
            cout<<"\n Do You want to delete record with any other key word ? (Y/N) : ";   
            char cho5;   
            cin>>cho5;   
            if(cho5=='Y'||cho5=='y')   
            {   
                goto start4;   
            }   
            //getch();   
            system("cls");   
            goto start;   
            }   
        else if(choicedel==3)//choice3->class   
        {   
            start43:   
            system("cls");   
            wf.open("temp.dat",ios::app|ios::binary);   
            rf.open("data.dat",ios::in);   
            cout<<"\n Enter class no of the rec to be deleted : ";   
            int classn;   
            cin>>classn;   
            int found=0,found1=0;   
            rf.read((char\*)&u,sizeof(u));   
            while(rf)   
            {   
                if(u.getclass()==classn)   
                {   
                    found=1;   
                    cout<<endl;   
                    u.show();   
                    cout<<"\n Are you sure you want to delete this record ? (y/n) : ";   
                    char choiceconf;   
                    cin>>choiceconf;   
                    if(choiceconf=='N'||choiceconf=='n')   
                    {   
                        wf.write((char\*)&u,sizeof(u));   
                        found1=1;   
                    }   
                }   
                else //if(u.getusno()!=usern)   
                {   
                    wf.write((char\*)&u,sizeof(u));   
                }   
  
                rf.read((char\*)&u,sizeof(u));   
            }   
            wf.close();   
            rf.close();   
            if(found==1)   
            {   
                if(found1==0)   
                {   
                    cout<<"\n Record with class no : "<<classn<<" was deleted successfully !! ";   
                    remove("data.dat");   
                    rename("temp.dat","data.dat");   
                }   
                else   
                {   
                    cout<<"\n Record with class no : "<<classn<<"  was not deleted ! ! ";   
                    remove("temp.dat");   
                }   
  
            }   
            else if(found==0)   
            {   
                cout<<"\n Record with class no : "<<classn<<" was not found, hence deletion unsuccessful ! ";   
                remove("temp.dat");   
            }   
            cout<<"\n Do you want to delete any other record ? (Y/N) : ";   
            char cho4;   
            cin>>cho4;   
            if(cho4=='Y'||cho4=='y')   
            {   
                goto start43;   
            }   
            cout<<"\n Do You want to delete record with any other key word ? (Y/N) : ";   
            char cho5;   
            cin>>cho5;   
            if(cho5=='Y'||cho5=='y')   
            {   
                goto start4;   
            }   
            //getch();   
            system("cls");   
            goto start;   
            }   
        else if(choicedel==4)//choice4->rollno   
        {   
            system("cls");   
            wf.open("temp.dat",ios::app|ios::binary);   
            rf.open("data.dat",ios::in);   
            cout<<"\n Enter roll no of the rec to be deleted : ";   
            int rolln;   
            cin>>rolln;   
            int found=0,found1=0;   
            rf.read((char\*)&u,sizeof(u));   
            while(rf)   
            {   
                if(u.getroll()==rolln)   
                {   
                    found=1;   
                    cout<<endl;   
                    u.show();   
                    cout<<"\n Are you sure you want to delete this record ? (y/n) : ";   
                    char choiceconf;   
                    cin>>choiceconf;   
                    if(choiceconf=='N'||choiceconf=='n')   
                    {   
                        wf.write((char\*)&u,sizeof(u));   
                        found1=1;   
                    }   
                }   
                else //if(u.getusno()!=usern)   
                {   
                    wf.write((char\*)&u,sizeof(u));   
                }   
  
                rf.read((char\*)&u,sizeof(u));   
            }   
            wf.close();   
            rf.close();   
            if(found==1)   
            {   
                if(found1==0)   
                {   
                    cout<<"\n Record with roll no : "<<rolln<<" was deleted successfully !! ";   
                    remove("data.dat");   
                    rename("temp.dat","data.dat");   
                }   
                else   
                {   
                    cout<<"\n Record with roll no : "<<rolln<<"  was not deleted ! ! ";   
                    remove("temp.dat");   
                }   
  
            }   
            else if(found==0)   
            {   
                cout<<"\n Record with roll no : "<<rolln<<" was not found, hence deletion unsuccessful ! ";   
                remove("temp.dat");   
            }   
            cout<<"\n Do you want to delete any other record ? (Y/N) : ";   
            char cho4;   
            cin>>cho4;   
            if(cho4=='Y'||cho4=='y')   
            {   
                goto start43;   
            }   
            cout<<"\n Do You want to delete record with any other key word ? (Y/N) : ";   
            char cho5;   
            cin>>cho5;   
            if(cho5=='Y'||cho5=='y')   
            {   
                goto start4;   
            }   
            //getch();   
            system("cls");   
            goto start;   
            }   
        else if(choicedel==5)//sec   
        {   
            start44:   
            system("cls");   
            wf.open("temp.dat",ios::app|ios::binary);   
            rf.open("data.dat",ios::in);   
            cout<<"\n Enter section of the rec to be deleted : ";   
            char secn;   
            cin>>secn;   
            int found=0,found1=0;   
            rf.read((char\*)&u,sizeof(u));   
            while(rf)   
            {   
                if(u.getsec()==secn)   
                {   
                    found=1;   
                    cout<<endl;   
                    u.show();   
                    cout<<"\n Are you sure you want to delete this record ? (y/n) : ";   
                    char choiceconf;   
                    cin>>choiceconf;   
                    if(choiceconf=='N'||choiceconf=='n')   
                    {   
                        wf.write((char\*)&u,sizeof(u));   
                        found1=1;   
                    }   
                }   
                else //if(u.getusno()!=usern)   
                {   
                    wf.write((char\*)&u,sizeof(u));   
                }   
  
                rf.read((char\*)&u,sizeof(u));   
            }   
            wf.close();   
            rf.close();   
            if(found==1)   
            {   
                if(found1==0)   
                {   
                    cout<<"\n Record with section : "<<secn<<" was deleted successfully !! ";   
                    remove("data.dat");   
                    rename("temp.dat","data.dat");   
                }   
                else   
                {   
                    cout<<"\n Record with section : "<<secn<<"  was not deleted ! ! ";   
                    remove("temp.dat");   
                }   
  
            }   
            else if(found==0)   
            {   
                cout<<"\n Record with section : "<<secn<<" was not found, hence deletion unsuccessful ! ";   
                remove("temp.dat");   
            }   
            cout<<"\n Do you want to delete any other record ? (Y/N) : ";   
            char cho4;   
            cin>>cho4;   
            if(cho4=='Y'||cho4=='y')   
            {   
                goto start44;   
            }   
            cout<<"\n Do You want to delete record with any other key word ? (Y/N) : ";   
            char cho5;   
            cin>>cho5;   
            if(cho5=='Y'||cho5=='y')   
            {   
                goto start4;   
            }   
            //getch();   
            system("cls");   
            goto start;   
            }   
        else if(choicedel==6)//exit   
        {   
            cout<<"\n PRESS ENTER!! ";   
            getch();   
            system("cls");   
            goto start;   
        }   
        else   
        {   
            //system("cls");   
            cout<<"\n ENTER A VALID CHOICE! ";   
            getch();   
            goto start4;   
        }   
    }   
    else if(choice==5)   
    {   
        system("cls");   
admin:   
        int choiceadm,switchs=2;   
        cout<<"\n ADMIN SETTINGS "<<endl;   
        cout<<"\n 1) CREATE / MODIFY PASSWORD \n 2) DELETE PASSWORD SYSTEM \n 3) BACK \n";   
        cout<<"\n NOTE:1) If You want to change the password completely its mandotary that you \n        must delete the password system and then create a new password";   
        cout<<"\n      2) Using 1st option will enable you to have multiple passwords i,e. the \n         old as well as the new one";   
        cout<<"\n \n CHOICE : ";   
        cin>>choiceadm;   
        if(choiceadm==1)   
        {   
            fstream f;   
            f.open("password.txt");   
            char c;   
           // f>>c;   
            if(f==NULL)   
                switchs=1;   
            f.close();   
            if(switchs==1)   
            {   
                system("cls");   
                cout<<"\n CREATE PASSWORD: ";   
                char password[31];   
                cin>>password;   
                wf.open("password.txt");   
                wf<<password;   
                wf.close();   
                cout<<"\n Password successfully created ! ";   
                getch();   
                system("cls");   
                goto admin;   
            }   
            else if(switchs==2)   
            {   
                fstream f;   
                system("cls");   
                cout<<"\n ADD A PASSWORD ! ";   
                cout<<"\n Enter current password : ";   
                char password[31];   
                char ch[31],m[31],c;   
                f.open("password.txt");   
               // cout<<"\n Enter the password : ";   
                cin>>ch;   
                f>>c;   
                 int i=0;   
                while(f)   
                {   
  
                    m[i]=c;   
                    f>>c;   
                    i++;   
                }   
                f.close();   
                if(strcmp(ch,m)==1)   
                {   
                    cout<<"\nBAD LUCK ;) Password incorrect ! ";   
                    getch();   
                    system("cls");   
                    goto admin;   
                }   
                else   
                {   
                    //char c;   
                    ofstream wf;   
                     //remove("password.txt");   
                    cout<<"\n WELCOME ADMIN ! ";   
                    cout<<"\n \n Enter a new password : ";   
                    cin>>password;   
                    wf.open("password.txt",ios::trunc);   
                    wf<<password;   
                    wf.close();   
                    cout<<"\n Password modified ! ";   
                    //rename("temppassword.txt","password.txt");   
                    getch();   
                    system("cls");   
                    goto admin;   
  
                }   
            }   
        }   
        else if(choiceadm==2)   
        {   
             fstream rf;//doubtful   
             system("cls");   
        cout<<"\n PASSWORD CHECK"<<endl;   
        char ch[31],m[31],c;   
        rf.open("password.txt");   
        if(rf!=NULL)   
        {   
        cout<<"\n Enter the password : ";   
        cin>>ch;   
        rf>>c;   
         int i=0;   
        while(rf)   
        {   
  
            m[i]=c;   
            rf>>c;   
            i++;   
        }   
        }   
        rf.close();   
        if(strcmp(ch,m)==1)   
        {   
            cout<<"\n BAD LUCK ;) PASSWORD INCORRECT ! ";   
            getch();   
            goto admin;   
  
        }   
        else   
        {   
             cout<<"\n PASSWORD CORRECT ! \n Press ENTER to remove password system! ";   
            // system("cls");   
            getch();   
            remove("password.txt");   
            system("cls");   
            goto admin;   
  
        }   
        }   
        else if(choiceadm==3)   
        {   
                system("cls");   
                goto start;   
        }   
        else   
        {   
                cout<<"\n ENTER CORRECT CHOICE ! ";   
                getch();   
                system("cls");   
                goto admin;   
        }   
    }   
    else if(choice==6)   
    {   
        exit(0);   
    }   
    else   
    {   
        system("cls");   
        cout<<"\n Please enter a correct choice ! ! ";   
        goto wc;   
    }   
}//main