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#include<iostream.h>
#include<conio.h>
#include<stdio.h>
class publication
{
private:
    char title[80];
    float price;
public:
    void getdata();
    void putdata();
};
class book:public publication
{
private:
    int pagecount;
public:
    book()
    {
        cout<<"\n\nBook:";
    }
    void getdata();
    void putdata();
};
class tape:public publication
{
private:
    float playingtime;
public:
    tape()
    {
        cout<<"\n\nTape:";
    }

    void getdata();
    void putdata();
};
void publication::getdata()
{
    cout<<"\nEnter the title:";
    gets(title);
    cout<<"\nEnter the price:";
    cin>>price;
}
void publication::putdata()
{
    cout<<"\nTitle of a string:"<<title;
    cout<<"\nPrice:"<<price;
}
void book::getdata()
{
    publication::getdata();
    cout<<"\nEnter the number of pages:";
    cin>>pagecount;
}
void book::putdata()
{
    publication::putdata();
    cout<<"\nNumber of pages:"<<pagecount;
}
void tape::getdata()
{
    publication::getdata();
    cout<<"\nEnter the playing time in minutes:";
    cin>>playingtime;
}

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void tape::putdata()
{
    publication::putdata();
    cout<<"\nPlaying time:"<<playingtime<<"minutes:";
}
void main()
{
    clrscr();
    book b1;
    b1.getdata();
    b1.putdata();
    tape t1;
    t1.getdata();
    t1.putdata();
    getch();
}

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Book:
Enter the title:Chemistry
Enter the price:400
Enter numbner of pages:271

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Title:Chemistry
Price:400
Number of pages:271

```

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Tape:
Enter the title:Stranger things
Enter the price:500
Enter the playing time in minutes:45

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Title:Stranger things
Price:500
Playing time:45 minutes_

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#include<iostream.h>
#include<conio.h>
#include<fstream.h>
#include<stdio.h>
#include<string.h>
#include<process.h>
char filename[30];
int pass=1;
class flight
{
private:
    char flightno[30];
    char flight_tict_no[30];
    char name[30];
    char source[50];
    char destination[50];
    float distance;
    float tict_cost;
public:
    void getdata();
    void putdata();
}f1;
void flight::getdata()
{
    cout<<"\nEnter flight number:";
    gets(flightno);
    cout<<"\nEnter the flight ticket number:";
    gets(flight_tict_no);
    cout<<"\nEnter passengers name:";
    gets(name);
    cout<<"\nEnter the source of flight:";
    gets(source);
    cout<<"\nEnter the destination of flight:";
    gets(destination);
    cout<<"\nEnter the distance of journey(km):";
    cin>>distance;
    tict_cost=distance*15;
}
void flight::putdata()
{
    cout<<"\nDetails of the passenger="<<pass;
    cout<<"\nFlight number="<<strupr(flightno);
    cout<<"\nFlight ticket number="
        <<strupr(flight_tict_no);
    cout<<"\nPassengers name="<<strupr(name);
    cout<<"\nSource of flight="<<strupr(source);
    cout<<"\nDestination of flight="
        <<strupr(destination);
    cout<<"\nDistance of journey(KM):"<<distance;
    cout<<"\nTicket cost:"<<tict_cost;
    cout<<"\n";
    if(pass%2==0)
    {
        getch();
        clrscr();
    }
    pass++;
}
void writedata()
{
    ofstream fout;
    cout<<"\nEnter the name to write:";
    gets(filename);
    fout.open(filename,ios::out|ios::binary|ios::noreplace); }

    if(fout==NULL)
    {
        cout<<"\nFile already exist...";
    }
    else
    {
        char ans='Y';
        while(ans=='Y' || ans=='y')
        {
            f1.getdata();
            fout.write((char *)&f1,sizeof(f1));
            cout<<"\nDo you want to enter more info?(Y/N):";
            cin>>ans;
        }
        fout.close();
    }
}
void appenddata()
{
    ofstream fout;
    cout<<"\nEnter the name to write:";
    gets(filename);

    fout.open(filename,ios::app|ios::binary|ios::nocreate);
    if(fout==NULL)
    {
        cout<<"\nFile not found, append operation failed";
    }
    else
    {
        char ans='Y';
        while(ans=='Y' || ans=='y')
        {
            f1.getdata();
            fout.write((char *)&f1,sizeof(f1));
            cout<<"\nDo you want to enter more info?(Y/N):";
            cin>>ans;
        }
        fout.close();
    }
}
void readdata()
{
    cout<<"\nEnter the file name to read:";
    gets(filename);
    ifstream fin;
    fin.open(filename,ios::in|ios::binary);
    if(fin==NULL)
    {
        cout<<"\nFile is not present...";
        getch();
        exit(0);
    }
    while(!fin.eof())
    {
        fin.read((char *)&f1,sizeof(f1));
        if(fin.eof())
            break;
        f1.putdata();
    }
    fin.close();
}

```

```

void main()
{
    clrscr();
    int ch;
    cout<<"\n1.To Read Passengers information";
    cout<<"\n2.To Write Passenger information";
    cout<<"\n3.To append Passenger information";
    cout<<"\nEnter your choice:";
    cin>>ch;
    switch(ch)
    {
        case 1:readdata();
            break;
        case 2:writedata();
            break;
        case 3: appenddata();
            break;
        default:cout<<"\nSee the menu properly....";
            break;
    }
    getch();
}

```

1.To Read Passengers information
 2.To Write Passenger information
 3.To append Passenger information
 Enter your choice:1

Enter the file name to read:data

Details of the passenger=1
 Flight number=12112001
 Flight ticket number=5632147890
 Passengers name:ADITYA
 Source of flight:DELHI
 Destination of flight:VISAKHAPATNAM
 Distance of journey(KM):350
 Ticket cost:5250

Details of the passenger=2
 Flight number=12112001
 Flight ticket number=5432678910
 Passengers name:RAMESH
 Source of flight:VISAKHAPATNAM
 Destination of flight:DELHI
 Distance of journey(KM):350
 Ticket cost:5250

1.To Read Passengers information
 2.To Write Passenger information
 3.To append Passenger information
 Enter your choice:3

Enter the name to write:data

Enter flight number:12112001

Enter the flight ticket number:5432678910

Enter passengers name:Ramesh

Enter the source of flight:Visakhapatnam

Enter the destination of flight:Delhi

Enter the distance of journey(km):350

Do you want to enter more information(Y/N):n

1.To Read Passengers information
 2.To Write Passenger information
 3.To append Passenger information
 Enter your choice:1

Enter the file name to read:data

Details of the passenger=1
 Flight number=12112001
 Flight ticket number=5632147890
 Passengers name:ADITYA
 Source of flight:DELHI
 Destination of flight:VISAKHAPATNAM
 Distance of journey(KM):350
 Ticket cost:5250

Details of the passenger=2
 Flight number=12112001
 Flight ticket number=5432678910
 Passengers name:RAMESH
 Source of flight:VISAKHAPATNAM
 Destination of flight:DELHI
 Distance of journey(KM):350
 Ticket cost:5250