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Name : Amit Bandu Swami

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Batch : A Experiment no.: 04

Title : C++ program to create database of Publication company using inheritance

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**//Program:** #include<iostream> using namespace std; class publication

{

public:

string title; float price;

string language; void add()

{

cout<<"......enter publication information "<<endl;

cout<<"enter title of the publication: "; cin>>title;

cout<<"enter price of the publication: "; cin>>price;

cout<<"Language of the publication : ";; cin>>language;

}

void display()

{

cout<<" "<<endl;

cout<<"TITLE OF THE PUBLICATION : "<<title<<endl; cout<<"PRICE OF THE PUBLICATION : "<<price<<endl;

cout<<"LANGUAGE OF THE PUBLICATION : "<<language<<endl;

}

};

class book:public publication

{

int page\_count; string author; string type;

int chapters; public:

void add\_book()

{

add();

cout<<"Author of the book: "; cin>>author;

cout<<"Type of the book: "; cin>>type;

cout<<"Enter page count of the book: "; cin>>page\_count;

cout<<"No. of the chapters in the book: "; cin>>chapters;

}

void display\_book()

{

display();

cout<<"AUTHOR OF THE BOOK : "<<author<<endl; cout<<"TYPE OF THE BOOK : "<<type<<endl;

cout<<"TOTAL PAGES IN THE BOOK : "<<page\_count<<endl;

cout<<"TOTAL CHAPTERS IN THE BOOK : "<<type<<endl;

cout<<"

}

};

"<<endl;

class tape:public publication

{

float play\_time; string type; string song; public:

void add\_tape()

{

add();

cout<<"Type of the tape(romantic/emotional): "; cin>>type;

cout<<"No.of songs= "; cin>>song;

cout<<"enter play time of the tape: "; cin>>play\_time;

}

void display\_tape()

{

display();

cout<<"TYPE OF THE TAPE : "<<type<<endl; cout<<"TOTAL SONGS IN THE TAPE : "<<song<<endl;

cout<<"PLAY TIME OF THE TAPE : "<<play\_time<<"min"<<endl;

cout<<" "<<endl;

cout<<"======================================="<<endl;

}

};

int main()

{

publication ob;

int ch=0,b\_count=0,t\_count=0,j; book b1[20];

tape t1[20];

while(1)

{

cout<<".......PUBLICATION INFORAMATION. "<<endl;

cout<<"1.add information to book "<<endl; cout<<"2.display inforamtion of book "<<endl; cout<<"3.add information to tape "<<endl; cout<<"4.display inforamtion of tape "<<endl; cout<<"enter ur choice: ";

cin>>ch; cout<<"======================================="<<endl;

switch(ch)

{

case 1: b1[b\_count].add\_book(); b\_count++;

break;

case 2:cout<<"....publication information of book. "<<endl;

for(j=0;j<b\_count;j++)

{

b1[j].display\_book();

}

break;

case 3: t1[t\_count].add\_tape(); t\_count++;

break;

case 4:cout<<"....publication information of tape "<<endl;;

for(j=0;j<t\_count;j++)

{

t1[j].display\_tape();

}

break;

}

}

}

/\*

**OUTPUT:**

**.......PUBLICATION INFORAMATION.....**

**1.add information to book 2.display inforamtion of book 3.add information to tape 4.display inforamtion of tape enter ur choice: 1**

**=======================================**

**......enter publication information.....**

**enter title of the publication: C++ enter price of the publication: 250**

**Language of the publication : ENGLISH Author of the book: ROBERT**

**Type of the book: CODING**

**Enter page count of the book: 150 No. of the chapters in the book: 10**

**.......PUBLICATION INFORAMATION.....**

**1.add information to book 2.display inforamtion of book 3.add information to tape 4.display inforamtion of tape enter ur choice: 1**

**=======================================**

**......enter publication information.....**

**enter title of the publication: JAVA enter price of the publication: 350**

**Language of the publication : ENGLISH Author of the book: GAMES**

**Type of the book: CODING**

**Enter page count of the book: 200 No. of the chapters in the book: 8**

**.......PUBLICATION INFORAMATION.....**

**1.add information to book 2.display inforamtion of book 3.add information to tape 4.display inforamtion of tape enter ur choice: 2**

**=======================================**

**....publication information of book....**

**--------------------------------------**

**TITLE OF THE PUBLICATION : C++ PRICE OF THE PUBLICATION : 250**

**LANGUAGE OF THE PUBLICATION : ENGLISH AUTHOR OF THE BOOK : ROBERT**

**TYPE OF THE BOOK : CODING TOTAL PAGES IN THE BOOK : 150 TOTAL CHAPTERS IN THE BOOK : CODING**

**--------------------------------------**

**--------------------------------------**

**TITLE OF THE PUBLICATION : JAVA PRICE OF THE PUBLICATION : 350**

**LANGUAGE OF THE PUBLICATION : ENGLISH AUTHOR OF THE BOOK : GAMES**

**TYPE OF THE BOOK : CODING TOTAL PAGES IN THE BOOK : 200 TOTAL CHAPTERS IN THE BOOK : CODING**

**--------------------------------------**

**.......PUBLICATION INFORAMATION.....**

1. **add information to book**
2. **display inforamtion of book 3.add information to tape 4.display inforamtion of tape enter ur choice:3**

**=======================================**

**......enter publication information.....**

**enter title of the publication: J\_MUSIC enter price of the publication: 300 Language of the publication : HINDI**

**Type of the tape(romantic/emotional): MASHUP No.of songs= 20**

**enter play time of the tape: 45**

**.......PUBLICATION INFORAMATION.....**

**1.add information to book 2.display inforamtion of book 3.add information to tape 4.display inforamtion of tape enter ur choice: 4**

**=======================================**

**....publication information of tape....**

**--------------------------------------**

**TITLE OF THE PUBLICATION : J\_MUSIC PRICE OF THE PUBLICATION : 300 LANGUAGE OF THE PUBLICATION : HINDI TYPE OF THE TAPE : MASHUP TOTAL SONGS IN THE TAPE : 20**

**PLAY TIME OF THE TAPE : 45min**

**-------------------------------**

**=======================================**

**.......PUBLICATION INFORAMATION.....**

**1.add information to book 2.display inforamtion of book 3.add information to tape 4.display inforamtion of tape enter ur choice:**

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