

/*

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

*/

//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 INFORMATION.....

1.add information to book

2.display information of book

3.add information to tape

4.display information 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 INFORMATION.....

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:

****/***