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//Omkar Nath Singh
#include<iostream>
#include<string.h>
#include<stdlib.h>

using namespace std;

class book
{
private:
    char *author,*title,*publisher;
    float *price;
    int *stock;
public:
    book() {
        author= new char[20];
        title=new char[20];
        publisher=new char[20];
        price= new float;
        stock=new int;
    }
    void feeddata();
    void editdata();
    void showdata();
    int search(char[],char[]);
    void buybook();
};

void book::feeddata() {
    cin.ignore();
    cout<<"\nEnter Author Name: ";    cin.getline(author,20);
    cout<<"Enter Title Name: ";    cin.getline(title,20);
    cout<<"Enter Publisher Name: ";    cin.getline(publisher,20);
    cout<<"Enter Price: ";    cin>>*price;
    cout<<"Enter Stock Position: ";    cin>>*stock;
}

void book::editdata() {

    cout<<"\nEnter Author Name: ";    cin.getline(author,20);
    cout<<"Enter Title Name: ";    cin.getline(title,20);
    cout<<"Enter Publisher Name: ";    cin.getline(publisher,20);
    cout<<"Enter Price: ";    cin>>*price;
    cout<<"Enter Stock Position: ";    cin>>*stock;
}

void book::showdata() {
    cout<<"\nAuthor Name: "<<author;
    cout<<"\nTitle Name: "<<title;
    cout<<"\nPublisher Name: "<<publisher;
    cout<<"\nPrice: "<<*price;
    cout<<"\nStock Position: "<<*stock;
}

int book::search(char tbuy[20],char abuy[20] ) {
    if(strcmp(tbuy,title)==0 && strcmp(abuy,author)==0)
        return 1;
    else return 0;
}

void book::buybook() {
    int count;
    cout<<"\nEnter Number Of Books to buy: ";
    cin>>count;
    if(count<=*stock) {
        *stock=*stock-count;
        cout<<"\nBooks Bought Sucessfully";
        cout<<"\nAmount: Rs. "<<(*price)*count;
    }
}

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    }
    else
        cout<<"\nRequired Copies not in Stock";
}

int main()
{
    book *B[20];
    int i=0,r,t,choice;
    char titlebuy[20],authorbuy[20];
    while(1)
    {
        cout<<"\n\n\t\tMENU"
        <<"\n1. Entry of New Book"
        <<"\n2. Buy Book"
        <<"\n3. Search For Book"
        <<"\n4. Edit Details Of Book"
        <<"\n5. Exit"

        <<"\n\nEnter your Choice: ";
        cin>>choice;

        switch(choice) {
            case 1: B[i] = new book;
                    B[i]->feeddata();
                    i++; break;

            case 2: cin.ignore();
                    cout<<"\nEnter Title Of Book: "; cin.getline(titlebuy,20);
                    cout<<"Enter Author Of Book: "; cin.getline(authorbuy,20);
                    for(t=0;t<i;t++)
                        {
                            if(B[t]->search(titlebuy,authorbuy))
                                {
                                    B[t]->buybook();
                                    break;
                                }
                        }
                    if(t==1)
                        cout<<"\nThis Book is Not in Stock";

                    break;

            case 3: cin.ignore();
                    cout<<"\nEnter Title Of Book: "; cin.getline(titlebuy,20);
                    cout<<"Enter Author Of Book: "; cin.getline(authorbuy,20);

                    for(t=0;t<i;t++)
                        {
                            if(B[t]->search(titlebuy,authorbuy))
                                {
                                    cout<<"\nBook Found Successfully";
                                    B[t]->showdata();
                                    break;
                                }
                        }
                    if(t==i)
                        cout<<"\nThis Book is Not in Stock";
                    break;

            case 4: cin.ignore();
                    cout<<"\nEnter Title Of Book: "; cin.getline(titlebuy,20);
                    cout<<"Enter Author Of Book: "; cin.getline(authorbuy,20);

                    for(t=0;t<i;t++)
                        {
                            if(B[t]->search(titlebuy,authorbuy))
                                {
                                    cout<<"\nBook Found Successfully";
                                    B[t]->editdata();
                                    break;
                                }
                        }
                    if(t==i)
                        cout<<"\nThis Book is Not in Stock";
                    break;

            case 5: exit(0);
            default: cout<<"\nInvalid Choice Entered";
        }
    }
}

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        return 0;
    }
```

Output:

```
omkar@wordpress:~$ g++ book.cpp
omkar@wordpress:~$ ./a.out
```

```
MENU
1. Entry of New Book
2. Buy Book
3. Search For Book
4. Edit Details Of Book
5. Exit
```

Enter your Choice: 1

```
Enter Author Name: Test Author
Enter Title Name: Test Title
Enter Publisher Name: Test Pub 1
Enter Price: 100
Enter Stock Position: 2
```

```
MENU
1. Entry of New Book
2. Buy Book
3. Search For Book
4. Edit Details Of Book
5. Exit
```

Enter your Choice: 2

```
Enter Title Of Book: Test Title
Enter Author Of Book: Test Author
```

Enter Number Of Books to buy: 1

```
Books Bought Sucessfully
Amount: Rs. 100
```

```
MENU
1. Entry of New Book
2. Buy Book
3. Search For Book
4. Edit Details Of Book
5. Exit
```

Enter your Choice: 5
omkar@wordpress:~\$

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