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FYMCA-B   03   BATCH_1

Assignment 2

Code:

```cpp
#include<iostream>
#include<cstring>
using namespace std;
class books{
        private:
                string title;
                string author;
                string publisher;
                int price;
        public:
                int available_stock;
                static int succ;
                static int unsucc;
        public:
        books(){
          title="";
                author="";
                publisher="";
                price=0;
                available_stock=0;


        }

        books(string a,string b,string c,int d,int e){
          title=a;
                author=b;
```

```cpp
            publisher=c;

            price=d;

            available_stock=e;


    }
    string getTitle(){

            return title;

    }



    void accept(){

            cout<<"Enter book title name:";

            cin.ignore();

            getline(cin,title);

            cout<<endl;

            cout<<"Enter Author Name:";

            getline(cin,author);

            cout<<endl;

            cout<<"Enter publisher name:";

            getline(cin,publisher);

            cout<<endl;

            cout<<"Enter book price:";

            cin>>price;

            cout<<endl;

            cout<<"Enter available stock count:";

            cin>>available_stock;

    }


    void display(){

            cout<<"\n"<<title<<"\t"<<author<<"\t"<<publisher<<"\t"<<price<<"\t"<<available_stock<<endl;

    }
```

```cpp
};

int books::succ=0;

int books::unsucc=0;


int linear(books b[30],string str,int n){


        for(int i=0;i<n;i++){

                if(str.compare(b[i].getTitle())==0){

                        //cout << "mil geya!";

                        return i;

                }

        }

        cout << "Book not found!\n";

        return -1;

}


void buy(books b[30],string str,int n){

        int page=linear(b,str,n);

        if(page!=-1){

                if(b[page].available_stock!=0){

                        cout << "purchased";

                        b[page].available_stock--;

                        books::succ++;

                }else{

                        cout << "stock not available";

                        books::unsucc++;

                }


        }

}
```

```cpp
int main() {
        books p[30];
        books p1;
        int i,ch,n=0;
        do{
                cout<<"\nMenu"<<endl;
                cout<<"1.Accept"<<endl;
                cout<<"2.Display"<<endl;
                cout<<"3.Purchase"<<endl;
                cout<<"4.Transcations" << endl;
                cout<<"5.Update"<<endl;
                cout<<"6.Search" << endl;
                cout<<"7.Exit" << endl;
                cout<<"Enter your choice:";
                cin>>ch;
                switch(ch){
                        case 1:
                                cout<<"Enter Data:\n";


                                        p[n++].accept();
                                        cout<<"****";


                                        break;


                        case 2:
                                linear(p,"su",1);

        cout<<"\n"<<"Title"<<"\t"<<"Author"<<"\t"<<"Publisher"<<"\t"<<"Book_Price"<<"\t"<<"Available_Stock"<<endl
;
                                        for(i=0;i<n;i++)
                                        {
                                                p[i].display();
```

```cpp
            }
            break;
    case 3:{

                cout << "enter book name to get:";

                string str;

                cin >> str;

                buy(p,str,n);

                break;

        }
    case 4:cout << "success:" << books::succ <<"\n unsuccess:"<<books::unsucc;

                break;

    case 5:{

                cout << "enter book name to get:";

                string str1;

                cin >> str1;

                int i=linear(p,str1,n);

                if(i!=-1){

                        p[i].accept();

                }
                break;

        }
    case 6:{

                cout << "enter book name to get:";

                string str1;

                cin >> str1;

                int i=linear(p,str1,n);

                p[i].display();

                break;

        }
    }
}
```

```
        }while(ch!=7);


        return 0;

}
```

Output:

```
Menu                                    Menu
1.Accept                                1.Accept
2.Display                               2.Display
3.Purchase                              3.Purchase
4.Transcations                          4.Transcations
5.Update                                5.Update
6.Search                                6.Search
7.Exit                                  7.Exit
Enter your choice:1                     Enter your choice:5
Enter Data:                             enter book name to get:art of war
Enter book title name:art of war        Enter book title name:1984

Enter Author Name:sun tzu               Enter Author Name:george orwell

Enter publisher name:china              Enter publisher name:usa

Enter book price:100                    Enter book price:200

Enter available stock count:2           Enter available stock count:1
****                                    Menu
Menu                                    1.Accept
1.Accept                                2.Display
2.Display                               3.Purchase
3.Purchase                              4.Transcations
4.Transcations                          5.Update
5.Update                                6.Search
6.Search                                7.Exit
7.Exit                                  Enter your choice:6
Enter your choice:2                     enter book name to get:1984
Book not found!                         Book not found!

Title   Author  Publisher     Book_Price      Available_Stock           0         0

art of war       sun tzu china   100     2    Menu
                                        1.Accept
Menu                                    2.Display
1.Accept                                3.Purchase
2.Display                               4.Transcations
3.Purchase                              5.Update
4.Transcations                          6.Search
5.Update                                7.Exit
6.Search                                Enter your choice:7
7.Exit
Enter your choice:3                     -----------------------------------
enter book name to get:art of war      Process exited after 60.7 seconds with return value 0
purchased                               Press any key to continue . . . |
Menu
1.Accept
2.Display
3.Purchase
4.Transcations
5.Update
6.Search
7.Exit
Enter your choice:4
success:1
 unsuccess:0
```