PROGRAM:

/to prepare book inventary

```cpp
#include<iostream>

using namespace std;

class book
{
private:
    string author;
    string title, publisher;
    float price;
    int stock_position;
public:
    void get_data();
    void edit_data();
    void display_data();
    void search_book(string,string);
    void buy_book();
};

void book ::display_data()
{
    cout<<"Enter the author name"<<endl;
    cout<<"Enter the title name:"<<endl;
    cout<<"Enter the publisher name:"<<endl;
    cout<<"Enter the stock position:"<<endl;
```

```cpp
        cout<<"Enter the price:"<<endl;

}

void book:: get_data()

{

        cout<<"Enter the author name"<<endl;

        cin>>author;

        cout<<"Enter the title name:"<<endl;

        cin>>title;

        cout<<"Enter the publisher name:"<<endl;

        cin>>publisher;

        cout<<"Enter the stock position:"<<endl;

        cin>>stock_position;

        cout<<"Enter the price:"<<endl;

        cin>>price;

}

void book :: edit_data()

{

        cout<<"Enter the author name"<<endl;

        cin>>author;

        cout<<"Enter the title name:"<<endl;

        cin>>title;

        cout<<"Enter the publisher name:"<<endl;

        cin>>publisher;

        cout<<"Enter the stock position:"<<endl;

        cin>>stock_position;
```

```cpp
        cout<<"Enter the price:"<<endl;

        cin>>price;

}

void book:: search_book(string author_search,string title_search)

{

        if(author_search==author&& title_search==title)

        {

                cout<<"Book is found"<<endl;

        }

        else

        {

                cout<<"Book is not found"<<endl;

        }

}

void book:: buy_book()

{

        int count;

        cout<<"number of copies you rent"<<endl;

        cin>>count;


        if(count<<stock_position)

        {

                stock_position=stock_position-count;

                cout<<"amount to be paid:"<<count*price;

                cout<<"Book bought successfully";
```

```cpp
        }

        else

        {

            cout<<" Book not available"<<endl;

        }


}

int main()

{

        book b[50];

        int ch,i=0;

        string title_search ;

        string author_search;

        while(1)

        {


            cout<<"1.enter details¥n2.search book¥n3.buy book¥n4.edit details¥n5.Exit"<<endl;

            cout<<"enter choice:";

            cin>>ch;

            switch(ch)

            {

            case 1:

                b[i].get_data();

                i++;
```

```cpp
                break;


        case 2:

                cout<<"Enter name and author name to search"<<endl;

                cin>>author_search>>title_search;

                for(int t=0; t<i; t++)

                {

                        b[t].search_book(author_search,title_search);

                        b[t].display_data();

                }

                break;


        case 3:

                cout<<"Enter name and author name to search"<<endl;

                cin>>author_search>>title_search;

                for(int t=0; t<i; t++)

                {

                        b[t].search_book(author_search,title_search);

                        b[t].buy_book();

                }

                break;


        case 4:

                b[i].edit_data();

                break;
```

```cpp
            case 5:

                exit;

                break;


            default:

                cout<<"Enter the correct choice";

        }

    }

    return 0;


}
```

OUTPUT:

```
1.enter details
2.search book
3.buy book
4.edit details
5.Exit
enter choice:1
Enter the author name
Rashmi
Enter the title name:
Maths
Enter the publisher name:
Priush
Enter the stock position:
7
Enter the price:
456
1.enter details
2.search book
3.buy book
4.edit details
5.Exit
enter choice:2
Enter name and author name to search
Maths Rashmi
Book is not found
Enter the author name
Enter the title name:
Enter the publisher name:
Enter the stock position:
Enter the price:
1.enter details
2.search book
3.buy book
4.edit details
5.Exit
enter choice:3
Enter name and author name to search
Maths Rashmi
Book is not found
number of copies you rent
2
amount to be paid:912Book bought successfully1.enter details
2.search book
3.buy book
4.edit details
5.Exit
enter choice:4
Enter the author name
Rashmi
Enter the title name:
Maths
Enter the publisher name:
Priush
Enter the stock position:
7
Enter the price:
456
1.enter details
2.search book
3.buy book
4.edit details
5.Exit
enter choice:5
1.enter details
2.search book
3.buy book
4.edit details
5.Exit
```