

**Department of Cyber Security**  
**Report on Course Based Project**

**Bookshop**



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## **Aim:**

To Create Bookshop in the computerised manner.

## **Problem Statement:**

We need to store the Book details in the computer.

## **Introduction:**

Book distributors transaction handling is one of the complex process and it required computerised system to maintain overall transactions as well as details of the book. It will become easy to everyone to search and the cost of the book, buying the book and search for the book. It provide fast response and service to the customers. It becomes very useful in searching the book with the title of book and name of the author.

## **Purpose:**

This program is used to find the book and entry of the book as well as the cost per book. It saves a lot of time.

## **Scope:**

The program contains the entry of the book, search for the book, transaction of the book and edit details of the book.

## **Methods used in the program:**

1. Class Method.
2. Pointers.
3. Scope Resolution operator

## **Source Code:**

```
#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;
    }
    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]->feeedata();
                    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";

    }
```

```
    }  
    return 0;  
}
```

**OUTPUT:**

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: balaguruswamy

Enter Title Name: c++

Enter Publisher Name: mc grawhill

Enter Price: 560

Enter Stock Position: 5

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: jk rowling

Enter Title Name: harrypotter

Enter Publisher Name: scholastic inc

Enter Price: 300

Enter Stock Position: 6

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: harrypotter

Enter Author Of Book: jk rowling

Enter Number Of Books to buy: 2

Books Bought Sucessfully

Amount: Rs. 600

This Book is Not in Stock

MENU

1. Entry of New Book

2. Buy Book

3. Search For Book

4. Edit Details Of Book

5. Exit

Enter your Choice: 3

Enter Title Of Book: wings of fire

Enter Author Of Book: abdul kalam

This Book is Not in Stock

#### MENU

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

Enter your Choice: 4

Enter Title Of Book: c++

Enter Author Of Book: balaguruswamy

Book Found Successfully

Enter Author Name: balaguruswamy

Enter Title Name: oops with c++

Enter Publisher Name: mc graw hill

Enter Price: 465

Enter Stock Position: 10

#### MENU

1. Entry of New Book
2. Buy Book

- 3. Search For Book
- 4. Edit Details Of Book
- 5. Exit

Enter your Choice: 5