

Project of CSE 310 :
BOOK MANGEMENT SYSTEM

Programming in Java

by

Name – Pradhum Kumar Mandal

Roll no. : 57

Section – K18TG

Reg No. -11815178

Submitted To : Subhita Ma'am



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School of Computer Science Engineering
Lovely Professional University, Jalandhar

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Q3. Book Management System

Code:

```
import java.util.*;
import java.io.*;

class Book //Parent class Book extended by Faculty and Student.
{
    void auther()throws IOException , FileNotFoundException    //
    auther function which shows Auther for different Book.
    {
        Book b1 = new Book();
        int auth=0;
        Scanner sc1 = new Scanner(System.in);
        System.out.println("-----Welcome Now You Can Choose The Book
        By Number-----");
        System.out.println("Auther for CSE are= \n1.. PROGRAMMING IN C
        by ASHOK N. KAMTHANE,, Pearson Education India \n2. JAVA THE
        COMPLETE REFERENCE by HERBERT SCHILDT, MCGRAW HILL
        EDUCATION \n3. DATA COMMUNICATIONS AND NETWORKING by
        BEHROUZ FOROUZAN, MCGRAW HILL EDUCATION
        \n4.PROGRAMMING WITH C++ by D RAVICHANDRAN, MCGRAW HILL
        EDUCATION \n5. OBJECT ORIENTED PROGRAMMING IN C++ by E
```

BALAGURUSAMY, MCGRAW HILL EDUCATION \n6.. DATA
STRUCTURES AND ALGORITHMS by ALFRED V. AHO, JEFFREY D.
ULLMAN AND JOHNE. HOPCROFT, PEARSON \n7. Go to Main
Menu");

System.out.println("Enter your Choice in Numeric=");

int a2=sc1.nextInt();

if(a2==2)

{

System.out.println("*****\nJava
syllabus\n*****");

System.out.println("1. Basics of Java \n2. OOPS Conecpts \n3.
String Handling \n4. Exception Handling \n5. Nested Classes \n6.
Multithreading");

System.out.println("Enter 1 to get Auther for CSE Menu");

auth=sc1.nextInt();

b1.auther();

}

else if(a2==1)

{

System.out.println("*****\n C syllbus \n*****");

System.out.println("1. Basics and introduction to C \n2. Control
structures and Input/Output functions \n3. User defined functions
and Storage classes\n4.Arrays in C \n5. Pointers, Dynamic memory
allocation and Strings \n6. Derived types including structures and
unions");

System.out.println("Enter 1 to get Auther for CSE Menu");

auth=sc1.nextInt();

```

b1.auther();
}
else if(a2==3)
{
    System.out.println("*****\n NETWORKS SYLLBUS
\n*****");

    System.out.println("1.NETWORK MODELS \n2.PHYSICAL LAYER:
Signal & Media \n3.DATA LINK LAYER \n4.NETWORK LAYER: IP
Addressing \n5.NETWORK LAYER: Routing \n6.TRANSPORT LAYER
");

    System.out.println("Enter 1 to get Auther for CSE Menu");
    auth=sc1.nextInt();
    b1.auther();
}
else if(a2==4)
{
    System.out.println("*****\n C++ SYLLBUS
\n*****");

    System.out.println("1.Concepts and Basics of C++ Programming
\n2.Pointers, Reference Variables, Arrays and String Concepts
\n3.Constructors, Destructors and File Handling \n4.Operator
Overloading and Type Conversion \n5.Dynamic Memory
Management and Polymorphism \n6.Exception Handling, Templates
and Standard Template Library (STL) ");

    System.out.println("Enter 1 to get Auther for CSE Menu");
    auth=sc1.nextInt();
    b1.auther();
}

```

```

}

else if(a2==5)

{

    System.out.println("*****\n C++ SYLLBUS
\n*****");

    System.out.println("1.Concepts and Basics of C++ Programming
\n2.Pointers, Reference Variables, Arrays and String Concepts
\n3.Constructors, Destructors and File Handling \n4.Operator
Overloading and Type Conversion \n5.Dynamic Memory
Management and Polymorphism \n6.Exception Handling, Templates
and Standard Template Library (STL) ");

    System.out.println("Enter 1 to get Auther for CSE Menu");

    auth=sc1.nextInt();

    b1.auther();

}

else if(a2==6)

{

    System.out.println("*****\n DATA STRUCTURE
SYLLBUS\n*****");

    System.out.println("1.Intruduction,Array and Sorting and Searching
\n2.Linked Lists \n3.Stack,Queues and Recursion \n4.Trees \n5.AVL
trees and Heaps \n6.Graph and Hashing ");

    System.out.println("Enter 1 to get Auther for CSE Menu");

    auth=sc1.nextInt();

    b1.auther();

}

```

```

else if(a2==7)
{
}
else
{
System.out.println("Wrong choice Enter again");
b1.auther();
}
}

void BookName()throws IOException , FileNotFoundException
{
Book b1 = new Book();
int auth=0;
Scanner sc1 = new Scanner(System.in);
System.out.println("-----Welcome To Book Nmae -----");
System.out.println("Auther for CSE are= \n1.. PROGRAMMING IN C
\n2. JAVA THE COMPLETE REFERENCE \n3. DATA
COMMUNICATIONS AND NETWORKING \n4.PROGRAMMING WITH
C++ \n5. OBJECT ORIENTED PROGRAMMING IN C++ \n6.. DATA
STRUCTURES AND ALGORITHMS \n7. Go to Main Menu");
System.out.println("Enter your Choice in Numeric=");
int a2=sc1.nextInt();
if(a2==2)
{

```

```
System.out.println("*****\nJava  
syllabus\n*****");
```

```
System.out.println("1. Basics of Java \n2. OOPS Conecpts \n3.  
String Handling \n4. Exception Handling \n5. Nested Classes \n6.  
Multithreading");
```

```
System.out.println("Enter 1 to get Auther for CSE Menu");
```

```
auth=sc1.nextInt();
```

```
b1.auther();
```

```
}
```

```
else if(a2==1)
```

```
{
```

```
System.out.println("*****\n C syllbus \n*****");
```

```
System.out.println("1. Basics and introduction to C \n2. Control  
structures and Input/Output functions \n3. User defined functions  
and Storage classes\n4.Arrays in C \n5. Pointers, Dynamic memory  
allocation and Strings \n6. Derived types including structures and  
unions");
```

```
System.out.println("Enter 1 to get Auther for CSE Menu");
```

```
auth=sc1.nextInt();
```

```
b1.auther();
```

```
}
```

```
else if(a2==3)
```

```
{
```

```
System.out.println("*****\n NETWORKS SYLLBUS  
\n*****");
```

```
System.out.println("1.NETWORK MODELS \n2.PHYSICAL LAYER:  
Signal & Media \n3.DATA LINK LAYER \n4.NETWORK LAYER: IP  
Addressing \n5.NETWORK LAYER: Routing \n6.TRANSPORT LAYER  
");
```

```
System.out.println("Enter 1 to get Auther for CSE Menu");
```

```
auth=sc1.nextInt();
```

```
b1.auther();
```

```
}
```

```
else if(a2==4)
```

```
{
```

```
System.out.println("*****\n C++ SYLLBUS  
\n*****");
```

```
System.out.println("1.Concepts and Basics of C++ Programming  
\n2.Pointers, Reference Variables, Arrays and String Concepts  
\n3.Constructors, Destructors and File Handling \n4.Operator  
Overloading and Type Conversion \n5.Dynamic Memory  
Management and Polymorphism \n6.Exception Handling, Templates  
and Standard Template Library (STL) ");
```

```
System.out.println("Enter 1 to get Auther for CSE Menu");
```

```
auth=sc1.nextInt();
```

```
b1.auther();
```

```
}
```

```
else if(a2==5)
```

```
{
```

```
System.out.println("*****\n C++ SYLLBUS  
\n*****");
```



```
System.out.println("1.Concepts and Basics of C++ Programming  
\n2.Pointers, Reference Variables, Arrays and String Concepts  
\n3.Constructors, Destructors and File Handling \n4.Operator  
Overloading and Type Conversion \n5.Dynamic Memory  
Management and Polymorphism \n6.Exception Handling, Templates  
and Standard Template Library (STL) ");
```

```
System.out.println("Enter 1 to get Auther for CSE Menu");
```

```
auth=sc1.nextInt();
```

```
b1.auther();
```

```
}
```

```
else if(a2==6)
```

```
{
```

```
System.out.println("*****\n DATA STRUCTURE  
SYLLBUS\n*****");
```

```
System.out.println("1.Intruduction,Array and Sorting and Searching  
\n2.Linked Lists \n3.Stack,Queues and Recursion \n4.Trees \n5.AVL  
trees and Heaps \n6.Graph and Hashing ");
```

```
System.out.println("Enter 1 to get Auther for CSE Menu");
```

```
auth=sc1.nextInt();
```

```
b1.auther();
```

```
}
```

```
else if(a2==7)
```

```
{
```

```
}
```

```
else
```

```
{
```

```
System.out.println("Wrong choice Enter again");  
b1.auther();  
}  
}  
}
```

class Student extends Book //Student class extends Book and has additional function required by students.

```
{  
int imc=0;  
public void auther()throws IOException , FileNotFoundException //  
syllabus function  
{  
user u4 =new user();  
Book b2=new Book();  
b2.auther();  
u4.check3();  
}  
  
}
```

class Faculty extends Book // Faculty class which also extends student and have diif function which needs.

{

public void Auther()throws IOException , FileNotFoundException // syllabus function.

{

user u5 =new user();

Book b4=new Book();

b4.auther();

u5.check2();

}

}

class user // user class from where are class awake.

{

void check()throws IOException , FileNotFoundException // check
function to get type of login and pass and exit.

```
{
Scanner sn1 = new Scanner(System.in);
user u1 =new user();
System.out.println("-----Type of LOGIN-----");
System.out.println("Enter \n1. 'Press F for Faculty' for LOGIN \n2.
'Press S for Student' LOGIN \n3. 'exit' if you want to Exit:");
String use=sn1.next();
if(use.equals("F"))
{
    System.out.println("-----Welcome Faculty-----");
    u1.check2();
}
else if(use.equals("S"))
{
    System.out.println("-----Welcome Student-----");
    u1.check3();
}
else if(use.equals("exit"))
{
    System.out.println("---Thank you for Using Book Management
System---");
}
else
```

```

    {
        System.out.println("--Wrong Choice Please Try Again--");
        u1.check();
    }
}

void check2()throws IOException , FileNotFoundException //check2
function to get and call all functions that Faculty can do.

{
    Scanner sn2 = new Scanner(System.in);
    user u2 =new user();
    Faculty s3 = new Faculty();
    System.out.println("Enter 'Faculty' as PASS=");
    String pass1=sn2.next();
    if(pass1.equals("Faculty"))
    {
        System.out.println("-----Welcome Now you can enjoy reading...--
        -----");
        System.out.println("Yo can search by...=");
        System.out.println("1. Auther \n2. Book name \n3. Go to Login
        Page");
        System.out.println("Give your Choice by numeric=");
        int a1=sn2.nextInt();
        if(a1==1)
        {
            s3.auther();

```

```

    }
    else if(a1==2)
    {
        s3.BookName();
    }
    else if(a1==3)
    {
        u2.check();
    }
    else
    {
        System.out.println("Wrong choice You Type PASS again");
        u2.check2();
    }
}
else
{
    System.out.println("Wrong PASS Please Try Again");
    u2.check2();
}
}

void check3()throws IOException , FileNotFoundException
,InputMismatchException //check3 function to get and call all
function that studnet can do.

```

```

{
Scanner sn3 = new Scanner(System.in);
Student s2 = new Student();
user u3 =new user();
System.out.println("Enter 'student' as PASS=");
String pass2=sn3.next();
if(pass2.equals("student"))
{
    System.out.println("##### Welcome Student #####");
    System.out.println("Functions You Can Do=");
    System.out.println("1. Auther \n2. Bookname \n3. Go to Login
Page");
    System.out.println("Give your Choice by numeric=");
    int a1=sn3.nextInt();
    if(a1==1)
    {
        s2.auther();
    }
    else if(a1==2)
    {
        s2.BookName();
    }
    else if(a1==3)
    {

```

```

        u3.check();
    }
    else
    {
        System.out.println("Wrong choice You Type PASS again");
        u3.check3();
    }
}
else
{
    System.out.println("Wrong PASS Please Try Again");
    u3.check3();
}
}

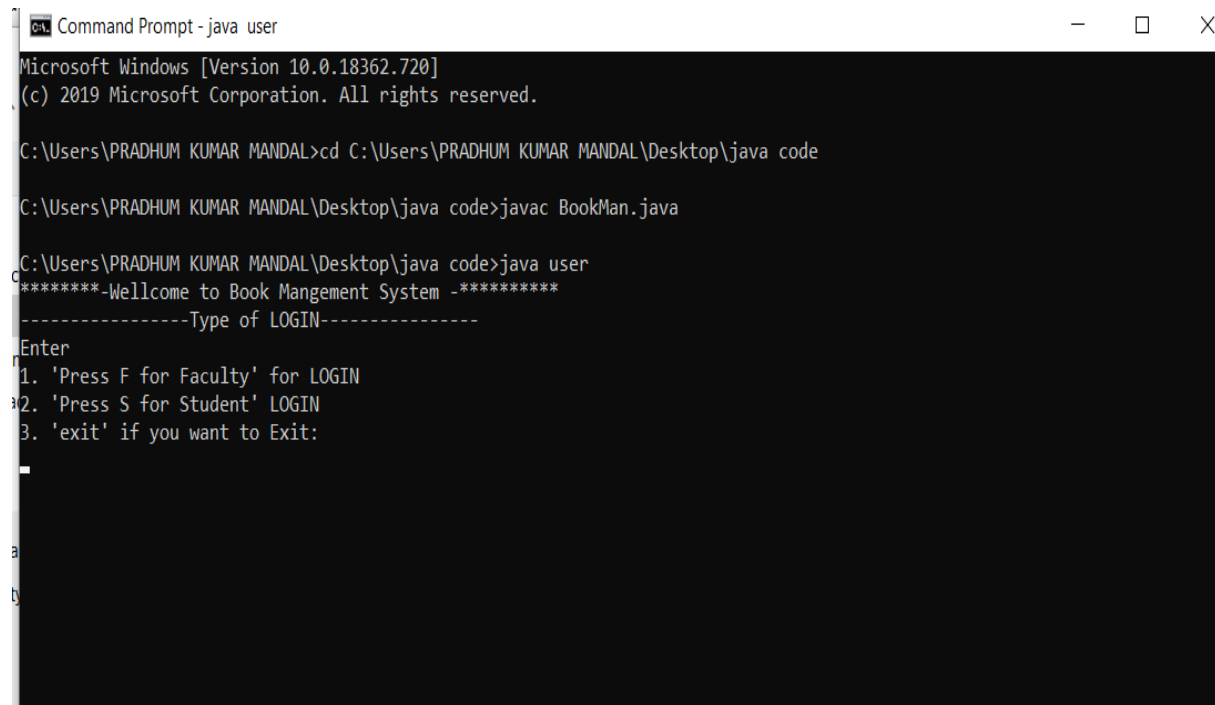
public static void main(String... aa)throws IOException ,
FileNotFoundException
{
    Scanner sn3 = new Scanner(System.in);
    user u =new user();

    System.out.println("*****-Wellcome to Book Mangement
System -*****");
    u.check();
}
}

```


Output:

First screen of code asking type of login.



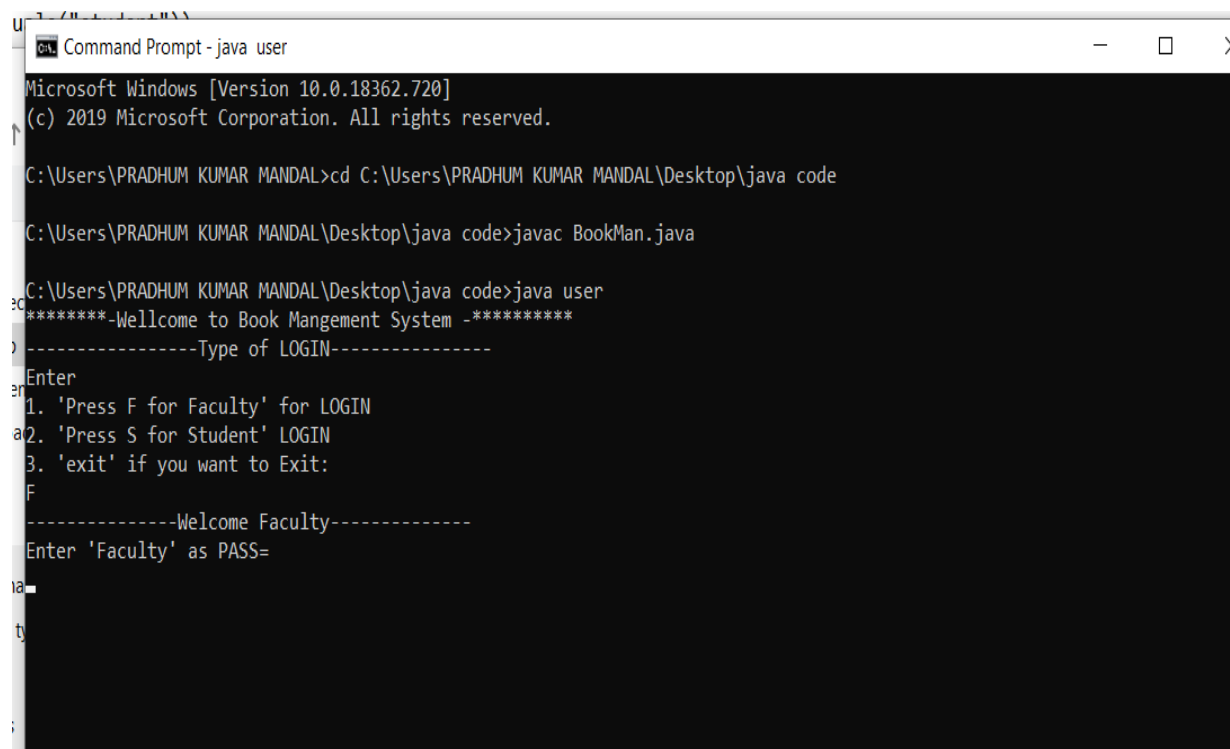
```
Command Prompt - java user
Microsoft Windows [Version 10.0.18362.720]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\PRADHUM KUMAR MANDAL>cd C:\Users\PRADHUM KUMAR MANDAL\Desktop\java code

C:\Users\PRADHUM KUMAR MANDAL\Desktop\java code>javac BookMan.java

C:\Users\PRADHUM KUMAR MANDAL\Desktop\java code>java user
*****-Wellcome to Book Mangement System -*****
-----Type of LOGIN-----
Enter
1. 'Press F for Faculty' for LOGIN
2. 'Press S for Student' LOGIN
3. 'exit' if you want to Exit:
_
```

When press “F” for faculty then wants password:



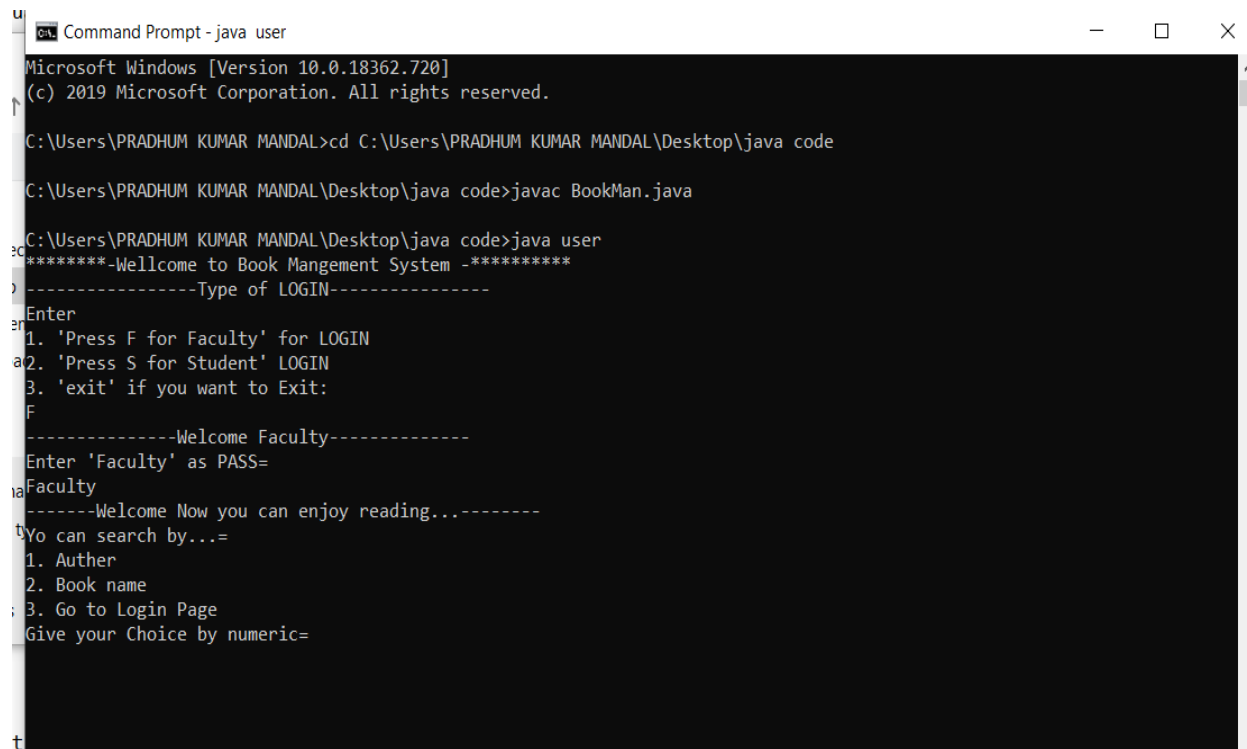
```
Command Prompt - java user
Microsoft Windows [Version 10.0.18362.720]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\PRADHUM KUMAR MANDAL>cd C:\Users\PRADHUM KUMAR MANDAL\Desktop\java code

C:\Users\PRADHUM KUMAR MANDAL\Desktop\java code>javac BookMan.java

C:\Users\PRADHUM KUMAR MANDAL\Desktop\java code>java user
*****-Wellcome to Book Mangement System -*****
-----Type of LOGIN-----
Enter
1. 'Press F for Faculty' for LOGIN
2. 'Press S for Student' LOGIN
3. 'exit' if you want to Exit:
F
-----Welcome Faculty-----
Enter 'Faculty' as PASS=
_
```

After enter Password Now see search type of Book:



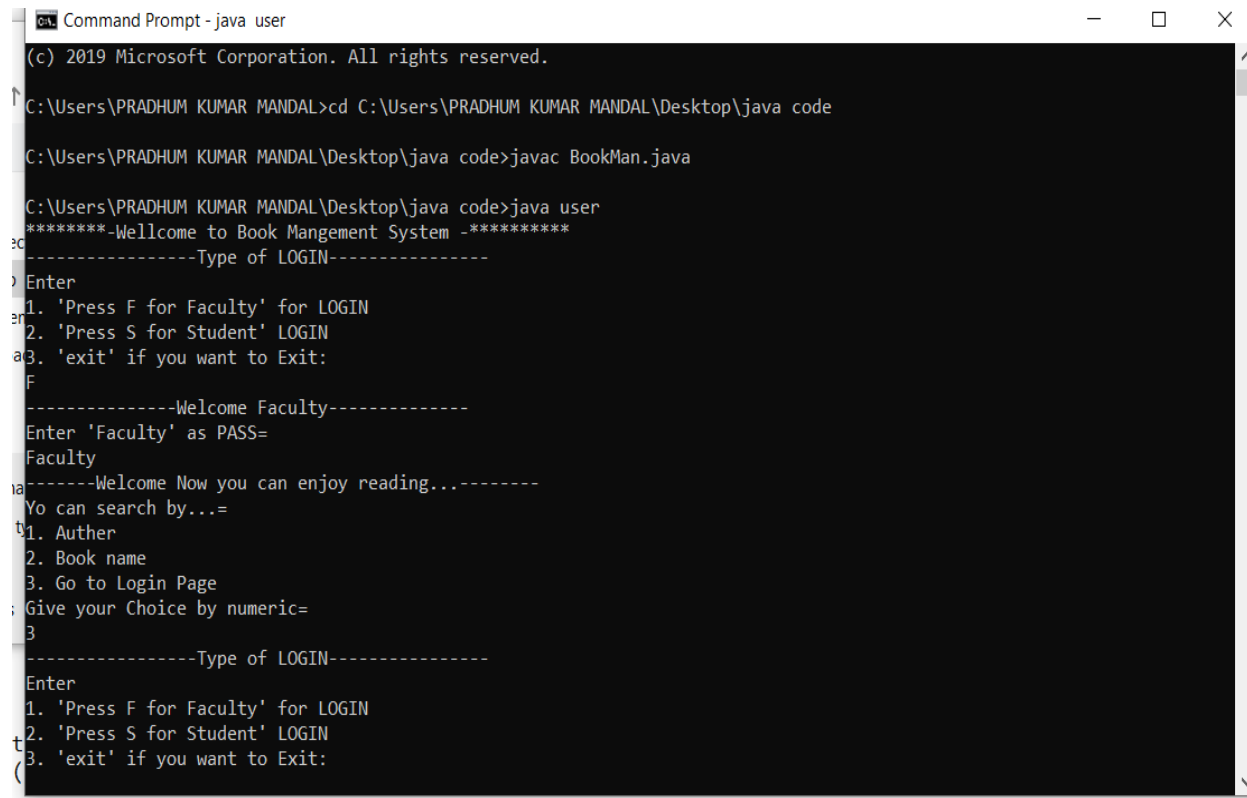
```
Command Prompt - java user
Microsoft Windows [Version 10.0.18362.720]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\PRADHUM KUMAR MANDAL>cd C:\Users\PRADHUM KUMAR MANDAL\Desktop\java code

C:\Users\PRADHUM KUMAR MANDAL\Desktop\java code>javac BookMan.java

C:\Users\PRADHUM KUMAR MANDAL\Desktop\java code>java user
*****-Wellcome to Book Mangement System -*****
-----Type of LOGIN-----
Enter
1. 'Press F for Faculty' for LOGIN
2. 'Press S for Student' LOGIN
3. 'exit' if you want to Exit:
F
-----Welcome Faculty-----
Enter 'Faculty' as PASS=
Faculty
-----Welcome Now you can enjoy reading...-----
Yo can search by...=
1. Auther
2. Book name
3. Go to Login Page
Give your Choice by numeric=
```

If you want login page enter “3”:



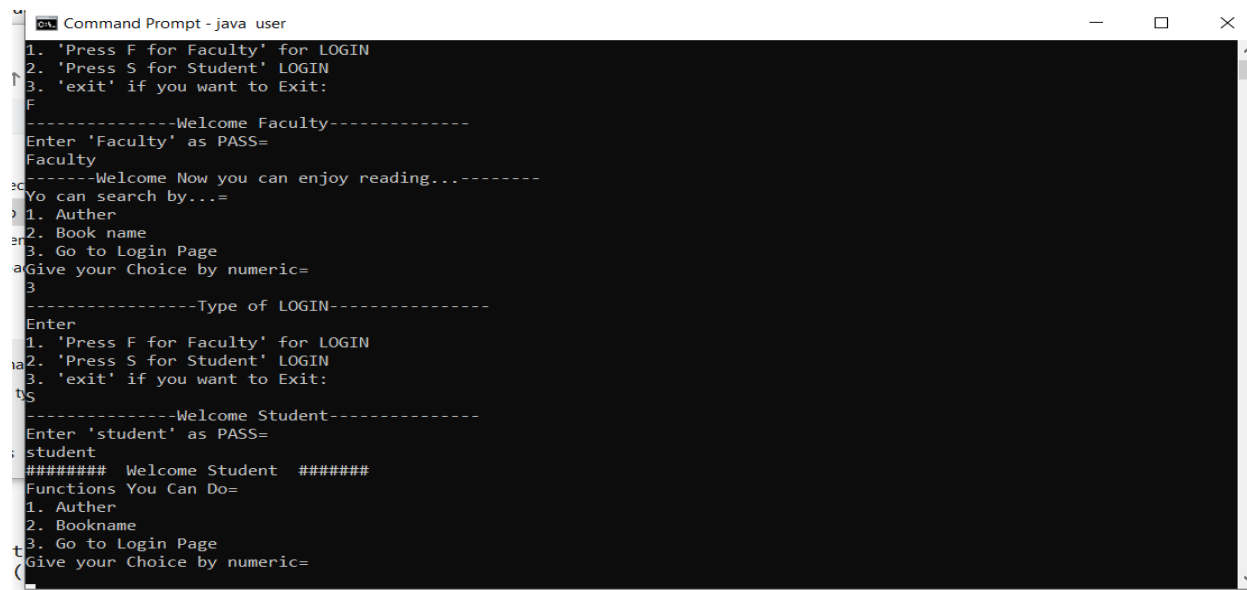
```
Command Prompt - java user
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\PRADHUM KUMAR MANDAL>cd C:\Users\PRADHUM KUMAR MANDAL\Desktop\java code

C:\Users\PRADHUM KUMAR MANDAL\Desktop\java code>javac BookMan.java

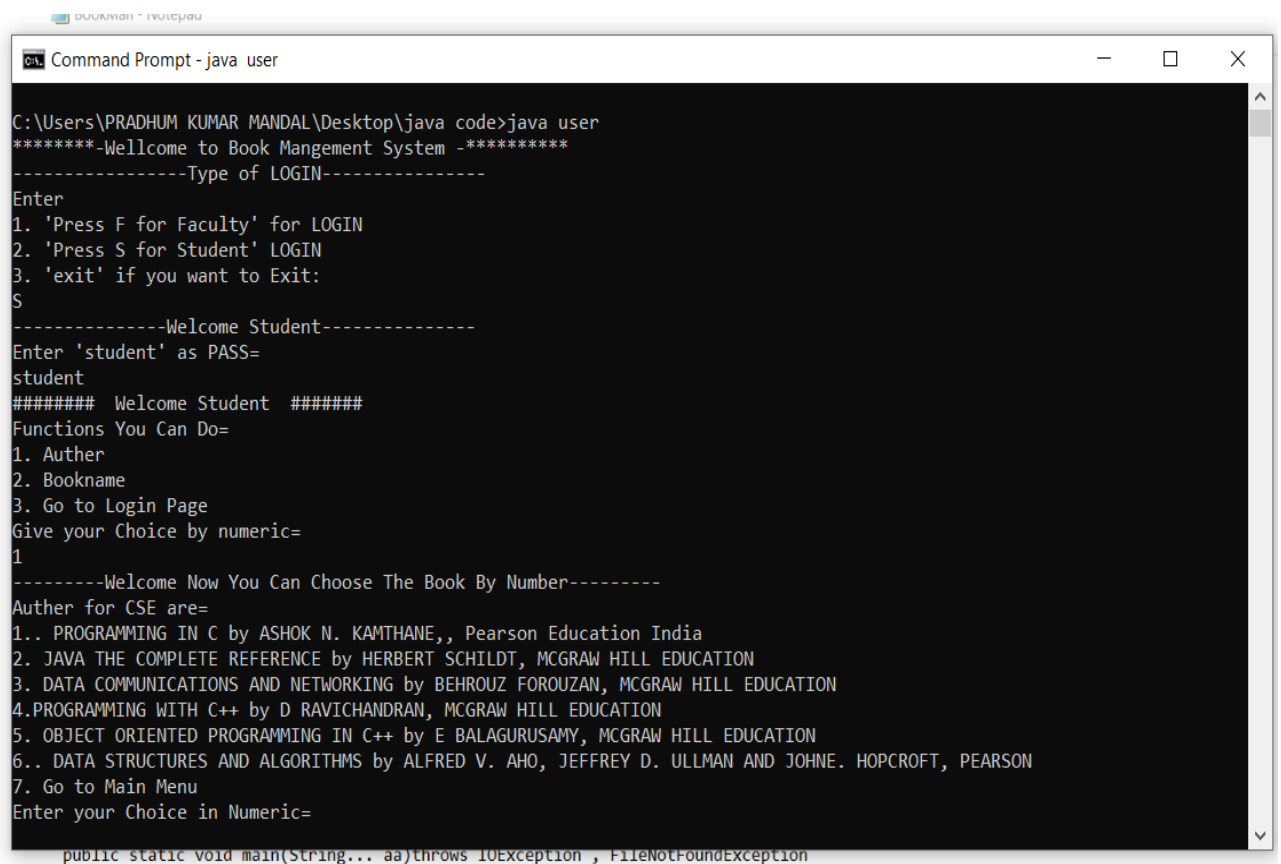
C:\Users\PRADHUM KUMAR MANDAL\Desktop\java code>java user
*****-Wellcome to Book Mangement System -*****
-----Type of LOGIN-----
Enter
1. 'Press F for Faculty' for LOGIN
2. 'Press S for Student' LOGIN
3. 'exit' if you want to Exit:
F
-----Welcome Faculty-----
Enter 'Faculty' as PASS=
Faculty
-----Welcome Now you can enjoy reading...-----
Yo can search by...=
1. Auther
2. Book name
3. Go to Login Page
Give your Choice by numeric=
3
-----Type of LOGIN-----
Enter
1. 'Press F for Faculty' for LOGIN
2. 'Press S for Student' LOGIN
3. 'exit' if you want to Exit:
```

In LOGIN page Press “S” then select student and password as “Student”:



```
Command Prompt - java user
1. 'Press F for Faculty' for LOGIN
2. 'Press S for Student' LOGIN
3. 'exit' if you want to Exit:
F
-----Welcome Faculty-----
Enter 'Faculty' as PASS=
Faculty
-----Welcome Now you can enjoy reading.-----
You can search by...=
1. Author
2. Book name
3. Go to Login Page
Give your Choice by numeric=
3
-----Type of LOGIN-----
Enter
1. 'Press F for Faculty' for LOGIN
2. 'Press S for Student' LOGIN
3. 'exit' if you want to Exit:
S
-----Welcome Student-----
Enter 'student' as PASS=
student
##### Welcome Student #####
Functions You Can Do=
1. Author
2. Bookname
3. Go to Login Page
Give your Choice by numeric=
```

When chose According to Auther Press “1” :



```
Command Prompt - java user
C:\Users\PRADHUM KUMAR MANDAL\Desktop\java code>java user
*****Wellcome to Book Mangement System -*****
-----Type of LOGIN-----
Enter
1. 'Press F for Faculty' for LOGIN
2. 'Press S for Student' LOGIN
3. 'exit' if you want to Exit:
S
-----Welcome Student-----
Enter 'student' as PASS=
student
##### Welcome Student #####
Functions You Can Do=
1. Author
2. Bookname
3. Go to Login Page
Give your Choice by numeric=
1
-----Welcome Now You Can Choose The Book By Number-----
Author for CSE are=
1.. PROGRAMMING IN C by ASHOK N. KAMTHANE,, Pearson Education India
2. JAVA THE COMPLETE REFERENCE by HERBERT SCHILDT, MCGRAW HILL EDUCATION
3. DATA COMMUNICATIONS AND NETWORKING by BEHROUZ FOROUZAN, MCGRAW HILL EDUCATION
4.PROGRAMMING WITH C++ by D RAVICHANDRAN, MCGRAW HILL EDUCATION
5. OBJECT ORIENTED PROGRAMMING IN C++ by E BALAGURUSAMY, MCGRAW HILL EDUCATION
6.. DATA STRUCTURES AND ALGORITHMS by ALFRED V. AHO, JEFFREY D. ULLMAN AND JOHNE. HOPCROFT, PEARSON
7. Go to Main Menu
Enter your Choice in Numeric=

public static void main(String... aa)throws IOException , FileNotFoundException
```

If you want to read Java Press “2” and see syllabus :

```
Command Prompt - java user
student
##### Welcome Student #####
Functions You Can Do=
1. Author
2. Bookname
3. Go to Login Page
Give your Choice by numeric=
1
-----Welcome Now You Can Choose The Book By Number-----
Author for CSE are=
1.. PROGRAMMING IN C by ASHOK N. KAMTHANE,, Pearson Education India
2. JAVA THE COMPLETE REFERENCE by HERBERT SCHILDT, MCGRAW HILL EDUCATION
3. DATA COMMUNICATIONS AND NETWORKING by BEHROUZ FOROUZAN, MCGRAW HILL EDUCATION
4. PROGRAMMING WITH C++ by D RAVICHANDRAN, MCGRAW HILL EDUCATION
5. OBJECT ORIENTED PROGRAMMING IN C++ by E BALAGURUSAMY, MCGRAW HILL EDUCATION
6.. DATA STRUCTURES AND ALGORITHMS by ALFRED V. AHO, JEFFREY D. ULLMAN AND JOHN E. HOPCROFT, PEARSON
7. Go to Main Menu
Enter your Choice in Numeric=
2
*****
Java syllabus
*****
1. Basics of Java
2. OOPS Concepts
3. String Handling
4. Exception Handling
5. Nested Classes
6. Multithreading
Enter 1 to get Author for CSE Menu
(
```

For exit enter “1” then “3” for LOGIN page then enter “exit”

:

```
Command Prompt
1
-----Welcome Now You Can Choose The Book By Number-----
Author for CSE are=
1.. PROGRAMMING IN C by ASHOK N. KAMTHANE,, Pearson Education India
2. JAVA THE COMPLETE REFERENCE by HERBERT SCHILDT, MCGRAW HILL EDUCATION
3. DATA COMMUNICATIONS AND NETWORKING by BEHROUZ FOROUZAN, MCGRAW HILL EDUCATION
4. PROGRAMMING WITH C++ by D RAVICHANDRAN, MCGRAW HILL EDUCATION
5. OBJECT ORIENTED PROGRAMMING IN C++ by E BALAGURUSAMY, MCGRAW HILL EDUCATION
6.. DATA STRUCTURES AND ALGORITHMS by ALFRED V. AHO, JEFFREY D. ULLMAN AND JOHN E. HOPCROFT, PEARSON
7. Go to Main Menu
Enter your Choice in Numeric=
7
Enter 'student' as PASS=
student
##### Welcome Student #####
Functions You Can Do=
1. Author
2. Bookname
3. Go to Login Page
Give your Choice by numeric=
3
-----Type of LOGIN-----
Enter
1. 'Press F for Faculty' for LOGIN
2. 'Press S for Student' LOGIN
3. 'exit' if you want to Exit:
exit
---Thank you for Using Book Management System---
(C:\Users\PRADHUM KUMAR MANDAL\Desktop\java code>
```

When in LOGIN page enter “asdf” then print wrong choice please Try Again -> it is handle by throws IOException , FileNotFoundException

```
Command Prompt - java user
1. Auther
2. Bookname
3. Go to Login Page
Give your Choice by numeric=
3
-----Type of LOGIN-----
Enter
1. 'Press F for Faculty' for LOGIN
2. 'Press S for Student' LOGIN
3. 'exit' if you want to Exit:
exit
---Thank you for Using Book Management System---
C:\Users\PRADHUM KUMAR MANDAL\Desktop\java code>javac BookMan.java
C:\Users\PRADHUM KUMAR MANDAL\Desktop\java code>java user
*****Wellcome to Book Mangement System *****
-----Type of LOGIN-----
Enter
1. 'Press F for Faculty' for LOGIN
2. 'Press S for Student' LOGIN
3. 'exit' if you want to Exit:
asdf
--Wrong Choice Please Try Again--
-----Type of LOGIN-----
Enter
1. 'Press F for Faculty' for LOGIN
2. 'Press S for Student' LOGIN
3. 'exit' if you want to Exit:
```

Same Exception handle in Student Page:

```
Command Prompt - java user
Enter
1. 'Press F for Faculty' for LOGIN
2. 'Press S for Student' LOGIN
3. 'exit' if you want to Exit:
exit
---Thank you for Using Book Management System---
C:\Users\PRADHUM KUMAR MANDAL\Desktop\java code>javac BookMan.java
C:\Users\PRADHUM KUMAR MANDAL\Desktop\java code>java user
*****Wellcome to Book Mangement System *****
-----Type of LOGIN-----
Enter
1. 'Press F for Faculty' for LOGIN
2. 'Press S for Student' LOGIN
3. 'exit' if you want to Exit:
S
-----Welcome Student-----
Enter 'student' as PASS=
student
##### Welcome Student #####
Functions You Can Do=
1. Auther
2. Bookname
3. Go to Login Page
Give your Choice by numeric=
5555
Wrong choice You Type PASS again
Enter 'student' as PASS=
```

Same Exception handle in Auther Page:

```

Select Command Prompt - java user
##### Welcome Student #####
Functions You Can Do=
1. Auther
2. Bookname
3. Go to Login Page
Give your Choice by numeric=
1
-----Welcome Now You Can Choose The Book By Number-----
Auther for CSE are=
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When enter “exit” in LOGIN page terminate the program:

```

C:\Users\PRADHUM KUMAR MANDAL\Desktop\java code>javac BookMan.java
C:\Users\PRADHUM KUMAR MANDAL\Desktop\java code>java user
*****-Wellcome to Book Mangement System -*****
-----Type of LOGIN-----
Enter
1. 'Press F for Faculty' for LOGIN
2. 'Press S for Student' LOGIN
3. 'exit' if you want to Exit:
exit
---Thank you for Using Book Management System---
C:\Users\PRADHUM KUMAR MANDAL\Desktop\java code>
C:\Users\PRADHUM KUMAR MANDAL\Desktop\java code>java user
*****-Wellcome to Book Mangement System -*****
-----Type of LOGIN-----
Enter
1. 'Press F for Faculty' for LOGIN
2. 'Press S for Student' LOGIN
3. 'exit' if you want to Exit:
asdf
--Wrong Choice Please Try Again--
-----Type of LOGIN-----
Enter
1. 'Press F for Faculty' for LOGIN
2. 'Press S for Student' LOGIN
3. 'exit' if you want to Exit:
exit
---Thank you for Using Book Management System---
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```