

# NEERAJ APPARI S073

## ADVANCE JAVA PROJECT

### Library Management System

-Console Base app

-Menu based program

=====

#### Required Features:

i) Book Entry

ii) Book Issue

iii) Return Book

iv) Defaulter List

#### Project Documentation:

Name

Roll no

Class

each module code:

output print screen.

CODE:

```
package colproj;
```

```
/*
```

```
* To change this license header, choose License Headers in  
Project Properties.
```

```
* To change this template file, choose Tools | Templates
```

```
* and open the template in the editor.
```

```
*/
```

```
/**
```

```
*
```

```
* @author LAXMINARAYANRO
```

```
*/
```

```
import java.sql.*;
```

```
import java.util.Scanner;
```

```
public class hub
```

```
{
```

```
    public static void bookent()
```

```
    {
```

```
        try
```

```
        {
```

```
System.out.println("Appari Neeraj S073");  
System.out.println("Book Entry");
```

```
Scanner sc = new Scanner(System.in);  
String bn;
```

```
System.out.println("Enter Book Name:");  
bn = sc.next();
```

```
Class.forName("org.apache.derby.jdbc.EmbeddedDriver");  
// drive class name
```

```
Connection cn =  
DriverManager.getConnection("jdbc:derby://localhost:1527/  
BOOKM"); // database path
```

```
String str = "insert into bkentry values(?) ";
```

```
PreparedStatement pst = cn.prepareStatement(str);
```

```
pst.setString(1, bn);  
pst.executeUpdate();
```

```
System.out.println("record inserted successfully ");
```

```
        cn.close();
    }
    catch(Exception e)
    {
        System.out.println("error:"+e.getMessage());
    }
}
```

```
public static void bookisu()
{
    try
    {
        System.out.println("Book Issue");
        Scanner sc = new Scanner(System.in);
        String bn,sn;

        int rn,d,m;
```

```
        System.out.println("Enter Book Name:");
        bn = sc.next();
```

```
System.out.println("Enter Student Name:");  
sn = sc.next();
```

```
System.out.println("Enter Student Roll No:");  
rn = sc.nextInt();
```

```
System.out.println("Enter Day:");  
d = sc.nextInt();
```

```
System.out.println("Enter Month:");  
m = sc.nextInt();
```

```
Class.forName("org.apache.derby.jdbc.EmbeddedDriver");  
// drive class name
```

```
Connection cn =  
DriverManager.getConnection("jdbc:derby://localhost:1527/  
BOOKM"); // database path
```

```
String str = "insert into bkissue values(?,?,?,?,?) ";
```

```
PreparedStatement pst = cn.prepareStatement(str);
```

```
String str1 = "delete from bkentry where bname = ? ";
```

```
PreparedStatement pst1 = cn.prepareStatement(str1);
```

```
pst1.setString(1, bn);
```

```
pst1.executeUpdate();
```

```
pst.setString(1, bn);
```

```
pst.setString(2, sn);
```

```
pst.setInt(3, rn);
```

```
pst.setInt(4, d);
```

```
pst.setInt(5, m);
```

```
pst.executeUpdate();
```

```
cn.close();
```

```
}
```

```
catch(Exception e)
```

```
{
```

```
    System.out.println("error:"+e.getMessage());
```

```
}
```

```
}
```

```
public static void retbook()
```

```
{
```

```
    try
```

```
    {
```

```
        System.out.println("Return Book");
```

```
        Scanner sc = new Scanner(System.in);
```

```
        String bn;
```

```
        System.out.println("Enter Book Name:");
```

```
        bn = sc.next();
```

```
        Class.forName("org.apache.derby.jdbc.EmbeddedDriver");  
        // drive class name
```

```
Connection cn =  
DriverManager.getConnection("jdbc:derby://localhost:1527/  
BOOKM"); // database path
```

```
String str = "delete from bkissue where book = ? ";
```

```
PreparedStatement pst = cn.prepareStatement(str);
```

```
String str1 = "insert into bkentry values(?) ";
```

```
PreparedStatement pst1 = cn.prepareStatement(str1);
```

```
pst1.setString(1, bn);
```

```
pst1.executeUpdate();
```

```
pst.setString(1, bn);
```

```
pst.executeUpdate();
```



```
        cn.close();
    }
    catch(Exception e)
    {
        System.out.println("error:"+e.getMessage());
    }

}
```

```
public static void dlist()
{
    try
    {
        System.out.println("Book Issue");
        Scanner sc = new Scanner(System.in);
        String bn,sn;

        int rn,d,m;
```

```
        System.out.println("Enter Book Name:");
```

```
bn = sc.next();
```

```
System.out.println("Enter Student Name:");
```

```
sn = sc.next();
```

```
System.out.println("Enter Student Roll No:");
```

```
rn = sc.nextInt();
```

```
System.out.println("Enter Day:");
```

```
d = sc.nextInt();
```

```
System.out.println("Enter Month:");
```

```
m = sc.nextInt();
```

```
Class.forName("org.apache.derby.jdbc.EmbeddedDriver");  
// drive class name
```

```
Connection cn =  
DriverManager.getConnection("jdbc:derby://localhost:1527/  
BOOKM"); // database path
```

```
String str = "insert into dflist values(?,?,?,?,?) ";
```

```
PreparedStatement pst = cn.prepareStatement(str);
```

```
pst.setString(1, bn);
```

```
pst.setString(2, sn);  
pst.setInt(3, rn);  
pst.setInt(4, d);  
pst.setInt(5, m);  
    pst.executeUpdate();
```

```
        cn.close();  
    }  
    catch(Exception e)  
    {  
        System.out.println("error:"+e.getMessage());  
    }  
  
}
```

```
public static void main(String[] args)
{
    try
    {
        System.out.println("Neeraj Appari S073");

        int choice;

        Scanner sc = new Scanner(System.in);

        System.out.println("Enter 1 For Book Entry \nEnter 2
For Book Issue \nEnter 3 For Return Book \nEnter 4 For
Defaulter List:");

        choice = sc.nextInt();

        switch (choice) {
        case 1:
            bookent();
            break;
```

case 2:

bookisu();

break;

case 3:

retbook();

break;

case 4:

dlist();

break;

default:

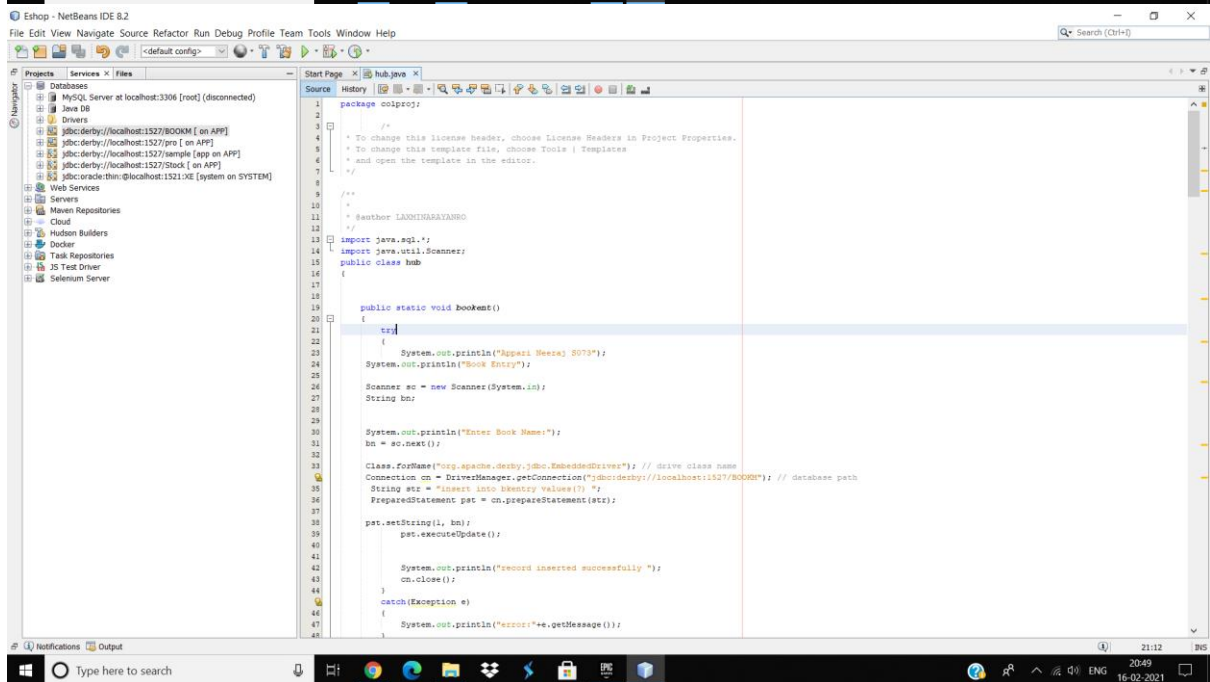
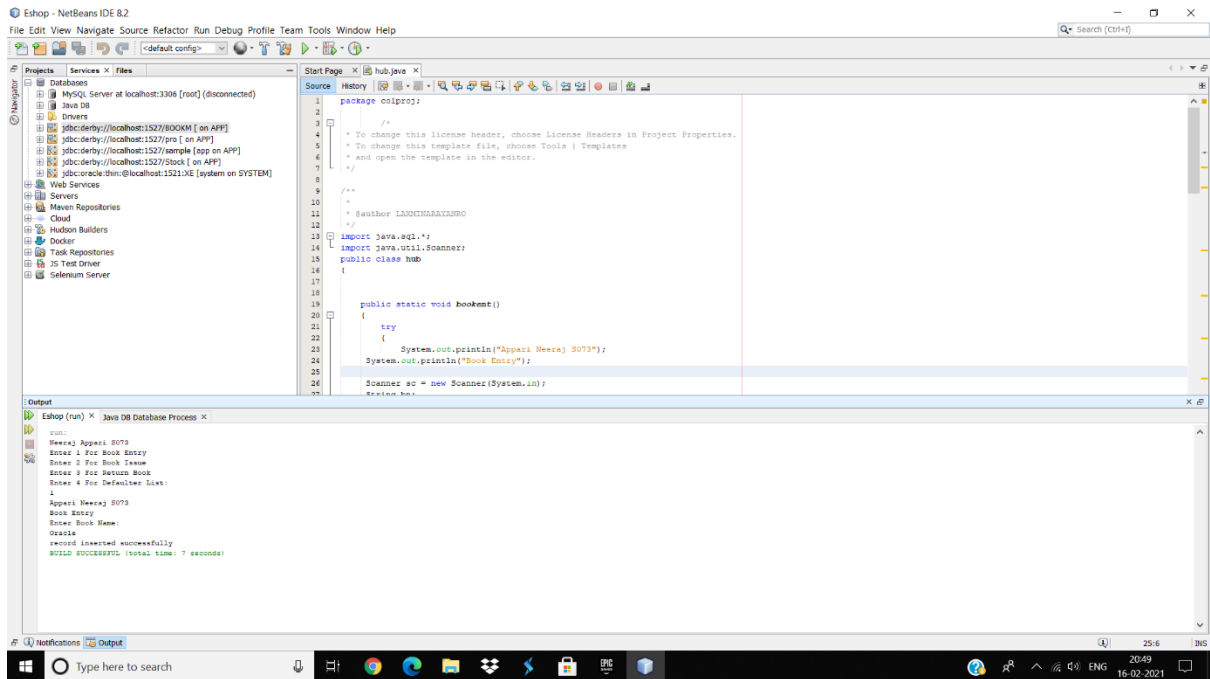
System.out.println("Invalid Entry");

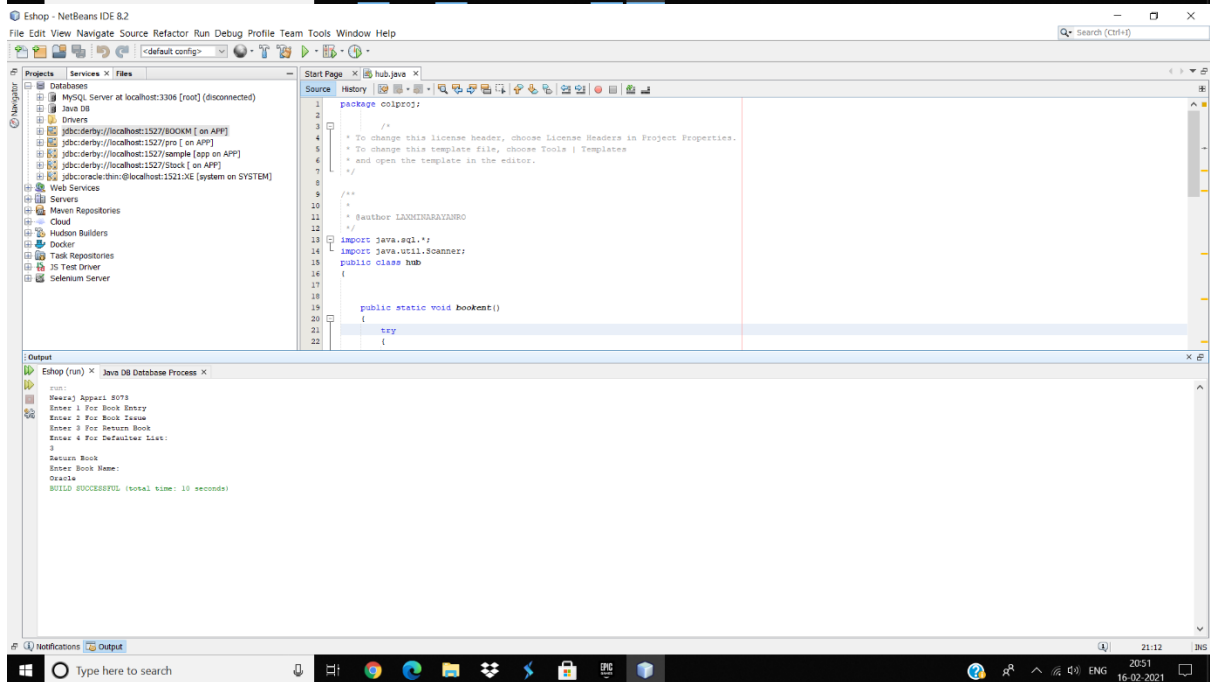
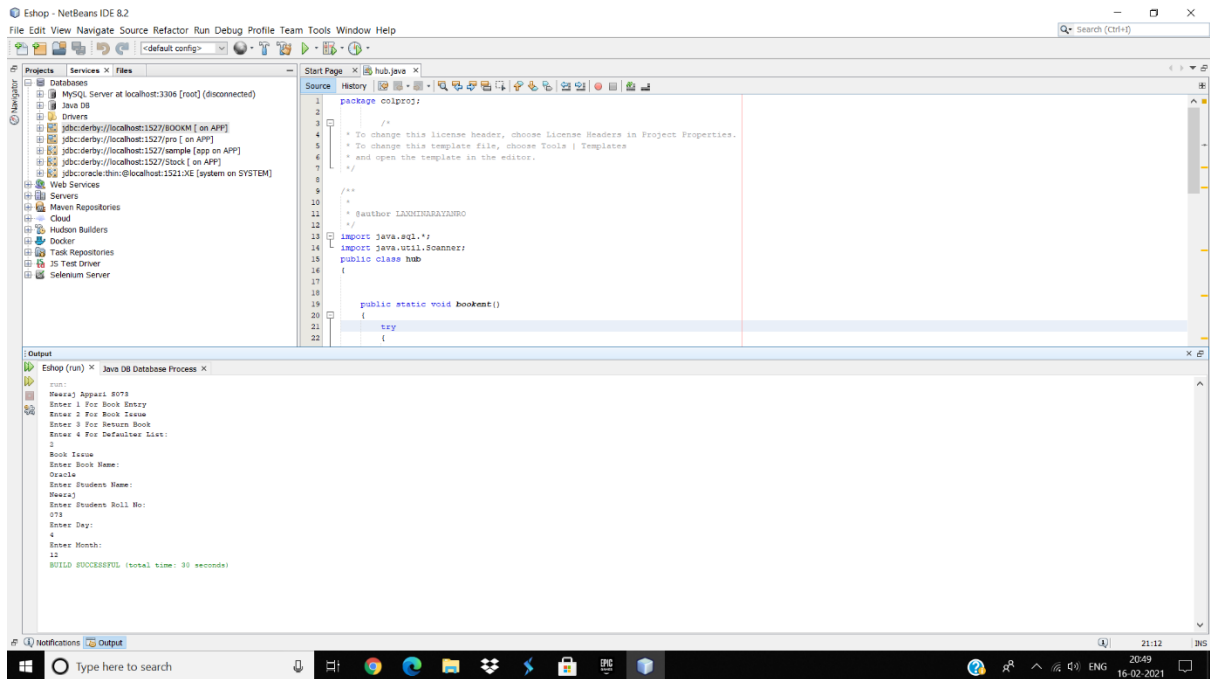
}

//System.out.println("record inserted successfully ");

//cn.close();

```
}  
catch(Exception e)  
{  
    System.out.println("error:"+e.getMessage());  
}  
  
}  
  
}
```







NetBeans IDE 8.2

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Projects Services Files

Databases

- MySQL Server at localhost:3306 [root] (disconnected)
- Java DB
- Drivers
- jdbc:derby://localhost:1527/BOOKM [on APP]
- APP
  - Tables
    - BKENTRY
    - BNAME
    - Indexes
    - Foreign Keys
    - BKISSUE
    - BOOKIE
    - DPLIST
    - UNTITLED
  - Views
  - Procedures
  - Other schemas
- jdbc:derby://localhost:1527/pro [on APP]
- jdbc:derby://localhost:1527/sample [app on APP]
- jdbc:derby://localhost:1527/stock [on APP]
- jdbc:oracle:thin:@localhost:1521:XE [system on SYSTEM]

Servers

- Web Services
- Maven Repositories
- Cloud
- Hudson Builders
- Docker
- Task Repositories
- JS Test Driver
- Selenium Server

Start Page

hub.java x SQL 1 [jdbc:derby://localhost:1527/...] x

Connection: jdbc:derby://localhost:1527/BOOKM [on APP]

```
1 SELECT * FROM APP.BKENTRY FETCH FIRST 100 ROWS ONLY;
```

SELECT \* FROM APP.BKENTRY... x

Max. rows: 100 Fetched Rows: 3

#	BNAME
1	Oracle
2	Isak
3	bookie

1:1 INS

NetBeans IDE 8.2

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Projects Services Files

Databases

- MySQL Server at localhost:3306 [root] (disconnected)
- Java DB
- Drivers
- jdbc:derby://localhost:1527/BOOKM [on APP]
- APP
  - Tables
    - BKENTRY
    - BNAME
    - Indexes
    - Foreign Keys
    - BKISSUE
    - BOOKIE
    - DPLIST
    - UNTITLED
  - Views
  - Procedures
  - Other schemas
- jdbc:derby://localhost:1527/pro [on APP]
- jdbc:derby://localhost:1527/sample [app on APP]
- jdbc:derby://localhost:1527/stock [on APP]
- jdbc:oracle:thin:@localhost:1521:XE [system on SYSTEM]

Servers

- Web Services
- Maven Repositories
- Cloud
- Hudson Builders
- Docker
- Task Repositories
- JS Test Driver
- Selenium Server

Start Page

hub.java x SQL 1 [jdbc:derby://localhost:1527/...] x SQL 2 [jdbc:derby://localhost:1527/...] x

Connection: jdbc:derby://localhost:1527/BOOKM [on APP]

```
1 SELECT * FROM APP.BKISSUE FETCH FIRST 100 ROWS ONLY;
```

SELECT \* FROM APP.BKISSUE... x

Max. rows: 100 Fetched Rows: 1

#	BOOK	STUDENT_NAME	STUDENT_NO	DAY	MONTH
1	Oracle	Isarak		73	4

1:1 INS

NetBeans IDE 8.2

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Projects Services Files

Databases

- MySQL Server at localhost:3306 [root] (disconnected)
- Java DB
- Drivers
- jdbc:derby://localhost:1527/BOOKM [on APP]

APP

- Tables
- BKENTRY
- BKNAME
- Indexes
- Foreign Keys
- BKISSUE
- BOOKIE
- DPLIST
- UNTITLED
- Views
- Procedures
- Other schemas

Web Services

Servers

Maven Repositories

Cloud

Hudson Builders

Docker

Start Page

```

1 package org.proj;
2
3 /**
4  * To change this license header, choose License Headers in Project Properties.
5  * To change this template file, choose Tools | Templates
6  * and open the template in the editor.
7  */
8
9 /**
10  *
11  * @author LANKINAGATYAMBO
12  */
13 import java.sql.*;
14 import java.util.Scanner;
15
16 public class hnb {
17
18     public static void bookent()
19     {
20         try
21         {
22             System.out.println("Appari Neeraj 5073");
23             System.out.println("Book Entry");
24
25             Scanner sc = new Scanner(System.in);
26             String book_name;
27
28         }
29     }
30 }

```

Output

Esshop (run) x Java DB Database Process x SQL 1 execution x SQL 2 execution x

```

1 Neeraj Appari 5073
2 Enter 1 For Book Entry
3 Enter 2 For Book Issue
4 Enter 3 For Return Book
5 Enter 4 For Default List:
6 4
7 Book Issue
8 Enter Book Name:
9 Oracle
10 Enter Student Name:
11 Neeraj
12 Enter Student Roll No:
13 073
14 Enter Day:
15 4
16 Enter Month:
17 10
18 RETID SUCCESSFUL (total time: 27 seconds)

```

Notifications

Type here to search

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Projects Services Files

Databases

- MySQL Server at localhost:3306 [root] (disconnected)
- Java DB
- Drivers
- jdbc:derby://localhost:1527/BOOKM [on APP]

APP

- Tables
- BKENTRY
- BKNAME
- Indexes
- Foreign Keys
- BKISSUE
- BOOKIE
- DPLIST
- UNTITLED
- Views
- Procedures
- Other schemas

Web Services

Servers

Maven Repositories

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Docker

Start Page

Connection: jdbc:derby://localhost:1527/BOOKM [on APP]

SELECT \* FROM APP.DPLIST

Max rows: 100 | Fetched Rows: 2 | Matching Rows:

#	BOOK_NAME	STUDENT_NAME	STUDENT_NO	DAY	MONTH
1	hnb			7	3
2	Oracle	Neeraj		73	4

Output

Esshop (run) x Java DB Database Process x SQL 1 execution x SQL 2 execution x SQL 3 execution x

```

1 Executed successfully in 0.006 s.
2 Fetching resultset took 0 s.
3 line 1, column 1
4
5 Execution finished after 0.030 s, no errors occurred.

```

Notifications

Type here to search

2054 16-02-2021

