OOPs USING C++

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PROGRAM OUTCOMES (PO)

- **Basic and Discipline specific knowledge**: Apply knowledge of basic mathematics, science and engineering fundamentals and engineering specialization to solve the engineering problems.
- **Problem analysis:** Identify and analyze well-defined engineering problems using codified standard methods.
- **Design/ development of solutions:** Design solutions for well-defined technical problems and assist with the design of systems components or processes to meet specified needs.
- **Project Management:** Use engineering management principles individually, as a team member or a leader to manage projects and effectively communicate about Well-defined engineering activities.

INTRODUCTION

- **Library management System** is a small program to manage library which includes the following tasks :
- Adding new users, books and magazines/newspapers.
- Updating Users, books and magazines/newspapers. Deleting Users, books and magazines/newspapers.
- Creating student record.
- Creating book record.
- Issuing Books.
- Depositing Books
- Collecting Books back.
- Searching for books, users.

continue….

- In our project we will be able to classify users , staffs or students. Classifying users allows the book issue controls, fine rates based on the classification. For example for students we will be able to issue a books at the fine rate of Rs. 1 as late fee and 3 books at the fine rate of Rs. 1 for staffs. What more, we can change this settings based on our needs. We have implemented terms of **OOPS using C++**.
- We have illustrated the concept of Classes , Objects , Manipulators , operators , Files , Control structures , String , Loops

TITLE DESCRIPTION

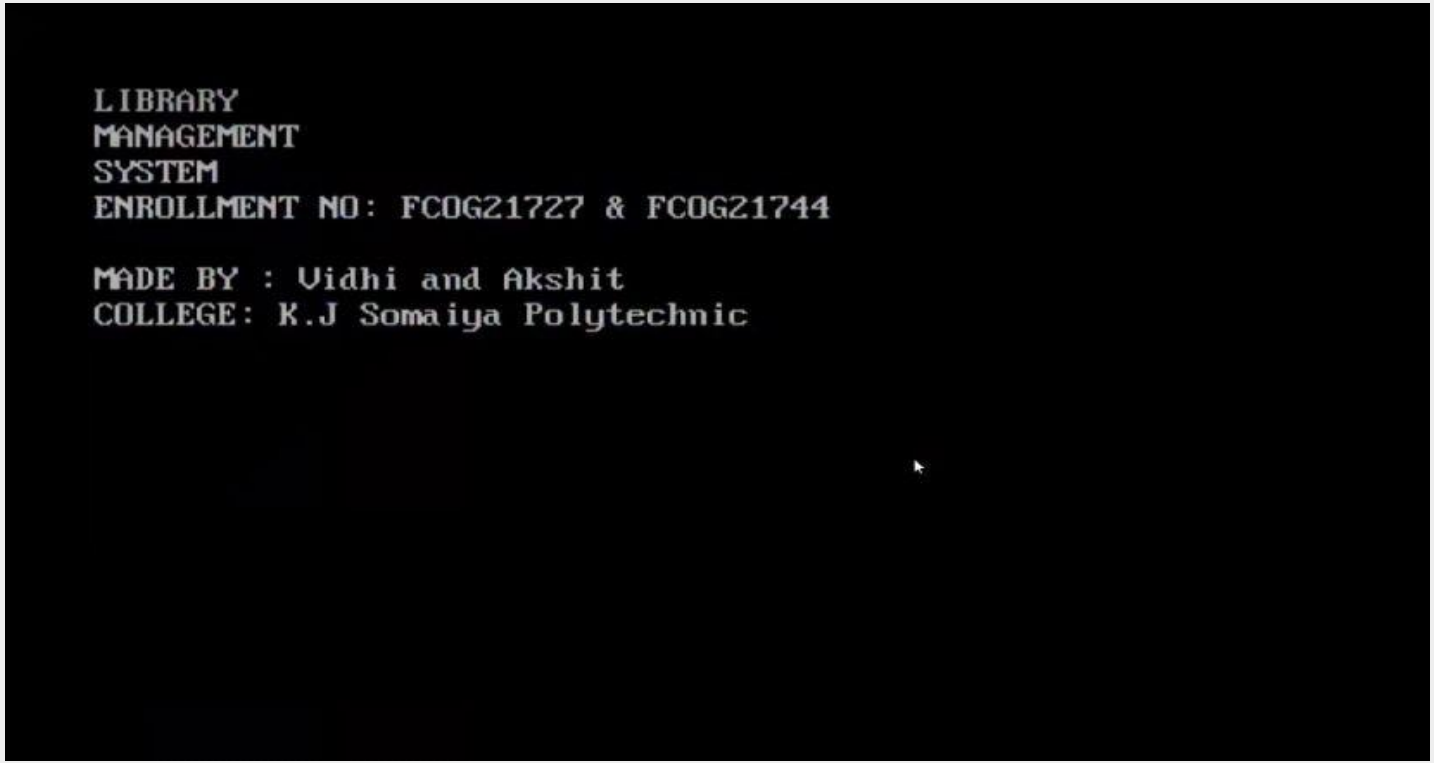
A library management system is software that is designed to manage all the functions of a library. It helps librarian to maintain the database of new books and the books that are borrowed by members along with their due dates.

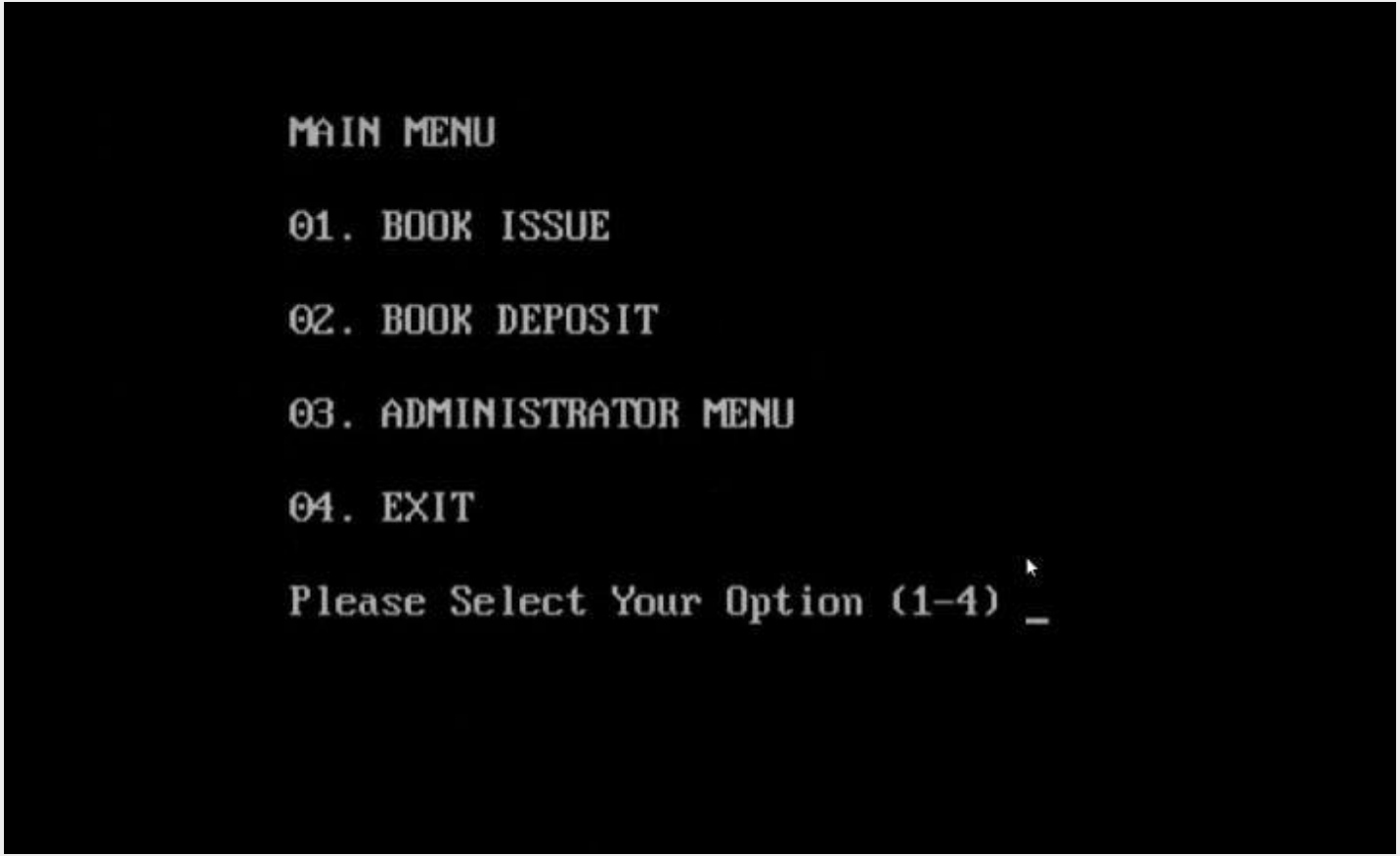
This system completely automates all your library's activities. The best way to maintain, organize, and handle countless books systematically is to implement a library management system software.

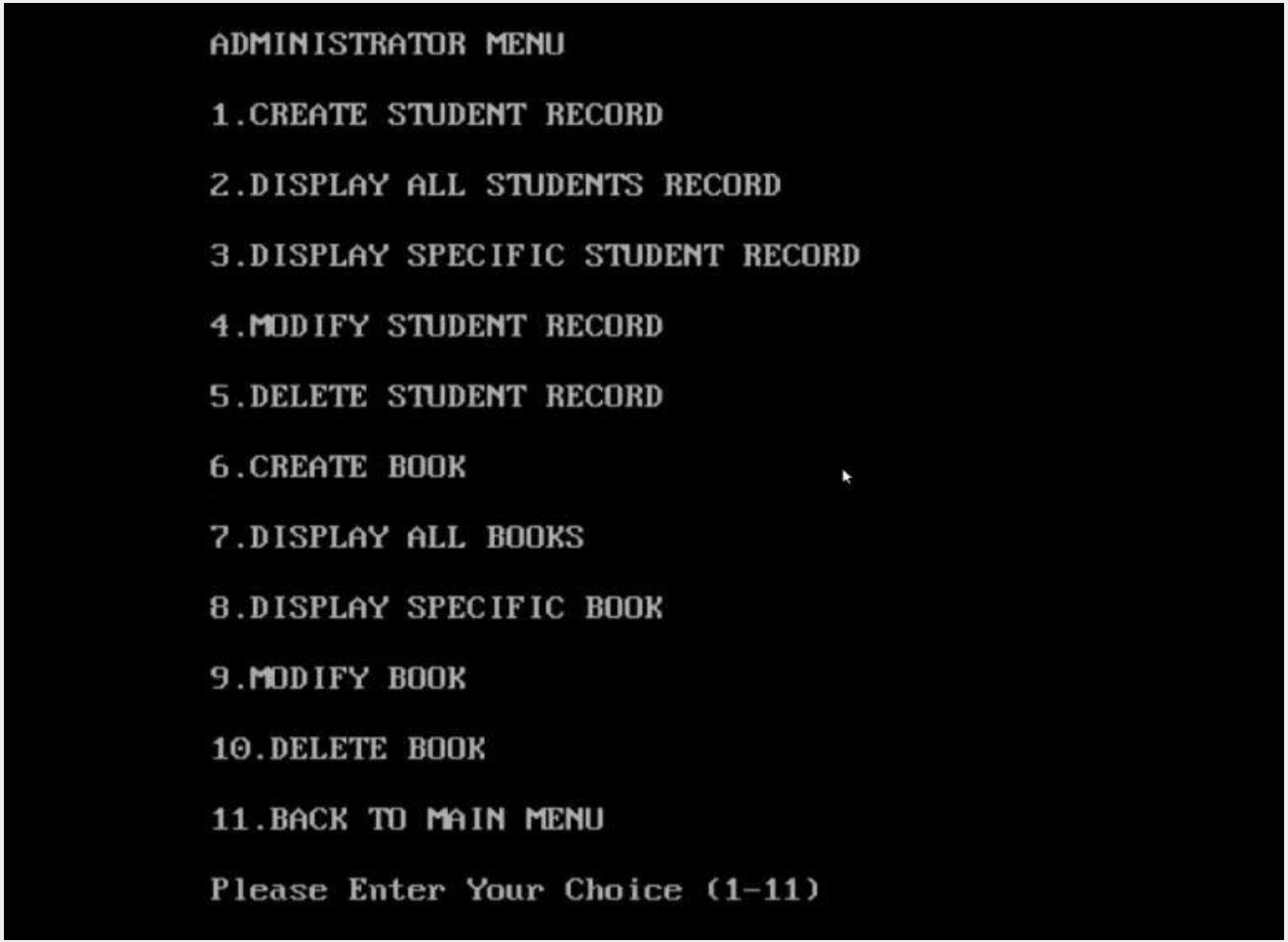
A library management system is used to maintain library records. It tracks the records of the number of books in the library, how many books are issued, or how many books have been returned or renewed or late fine charges, etc.

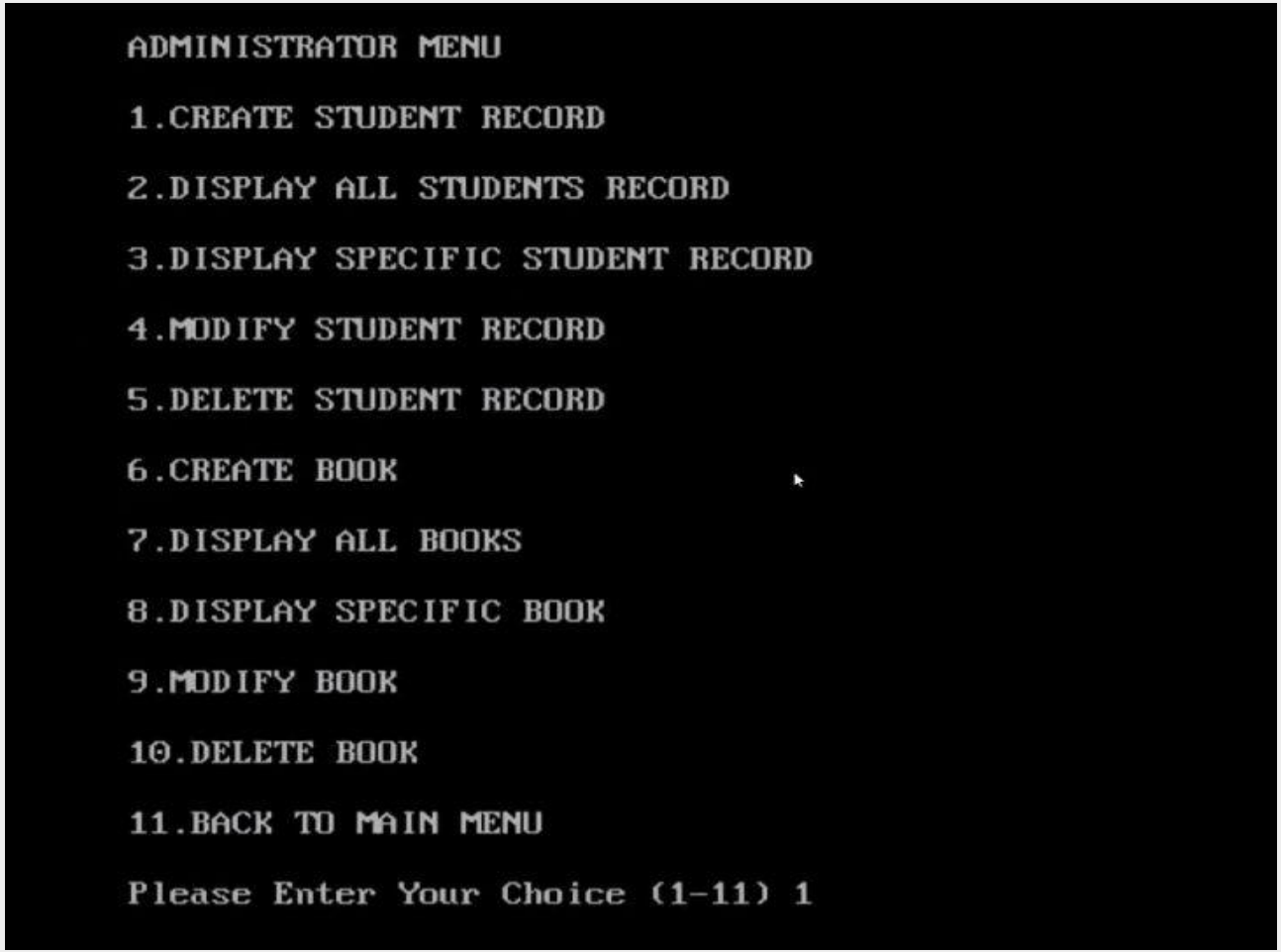
You can find books in an instant, issue/reissue books quickly, and manage all the data efficiently and orderly using this system. The purpose of a library management system is to provide instant and accurate data regarding any type of book, thereby saving a lot of time and effort.

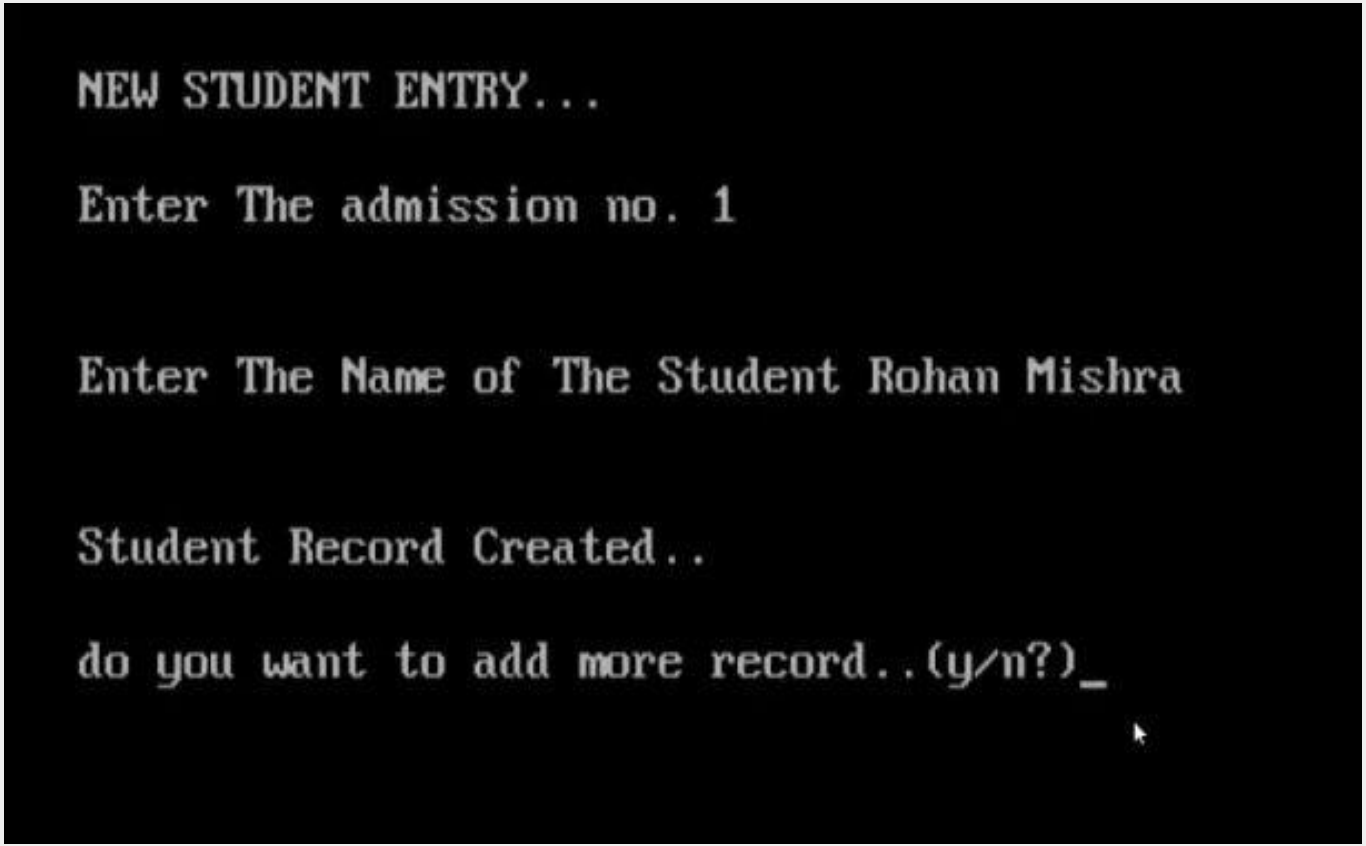
OUTPUTS:

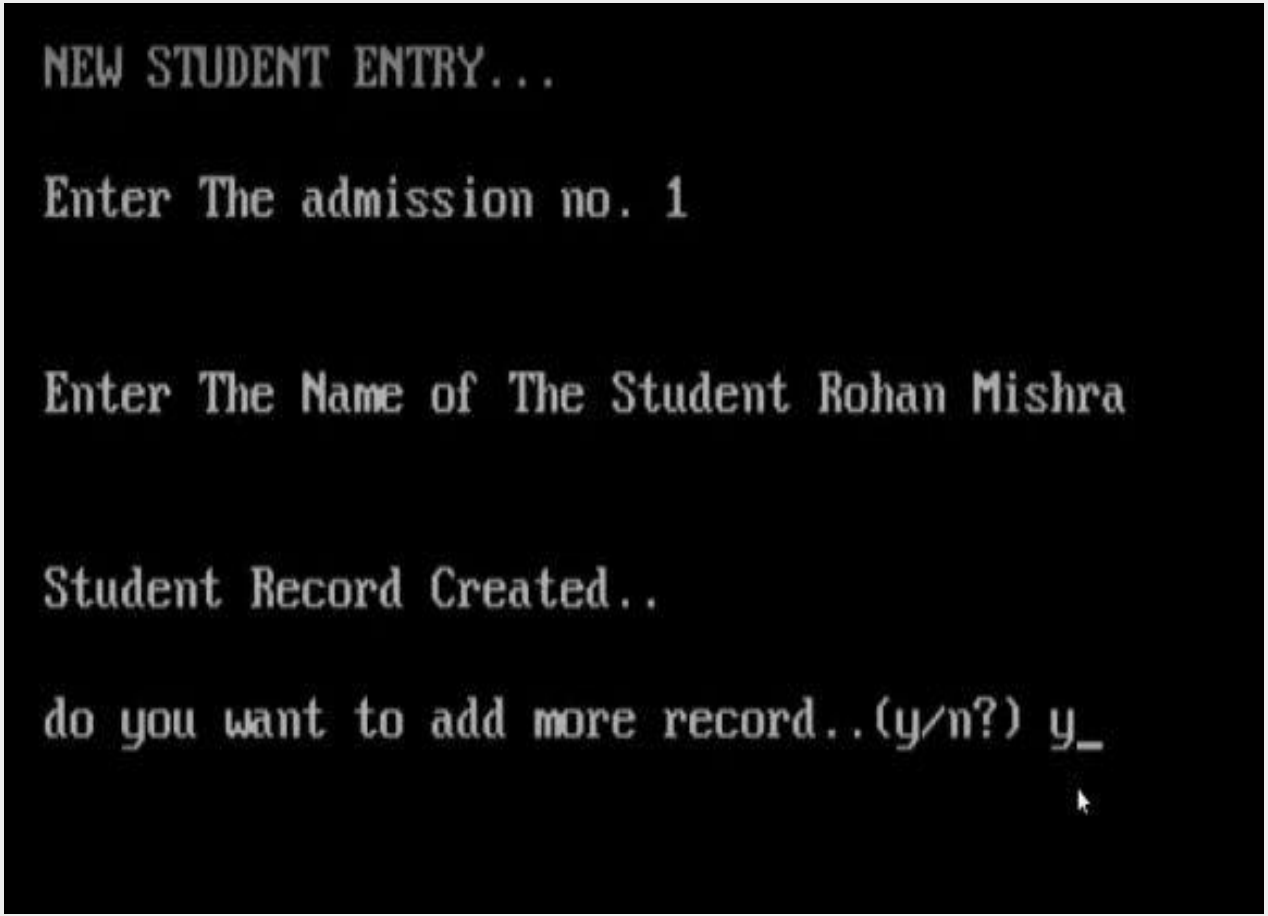

LIBRARY
MANAGEMENT
SYSTEM
ENROLLMENT NO: FCOG21727 & FCOG21744
MADE BY : Vidhi and Akshit
COLLEGE: K.J Somaiya Polytechnic


MAIN MENU
01. BOOK ISSUE
02. BOOK DEPOSIT
03. ADMINISTRATOR MENU
04. EXIT
Please Select Your Option (1-4)

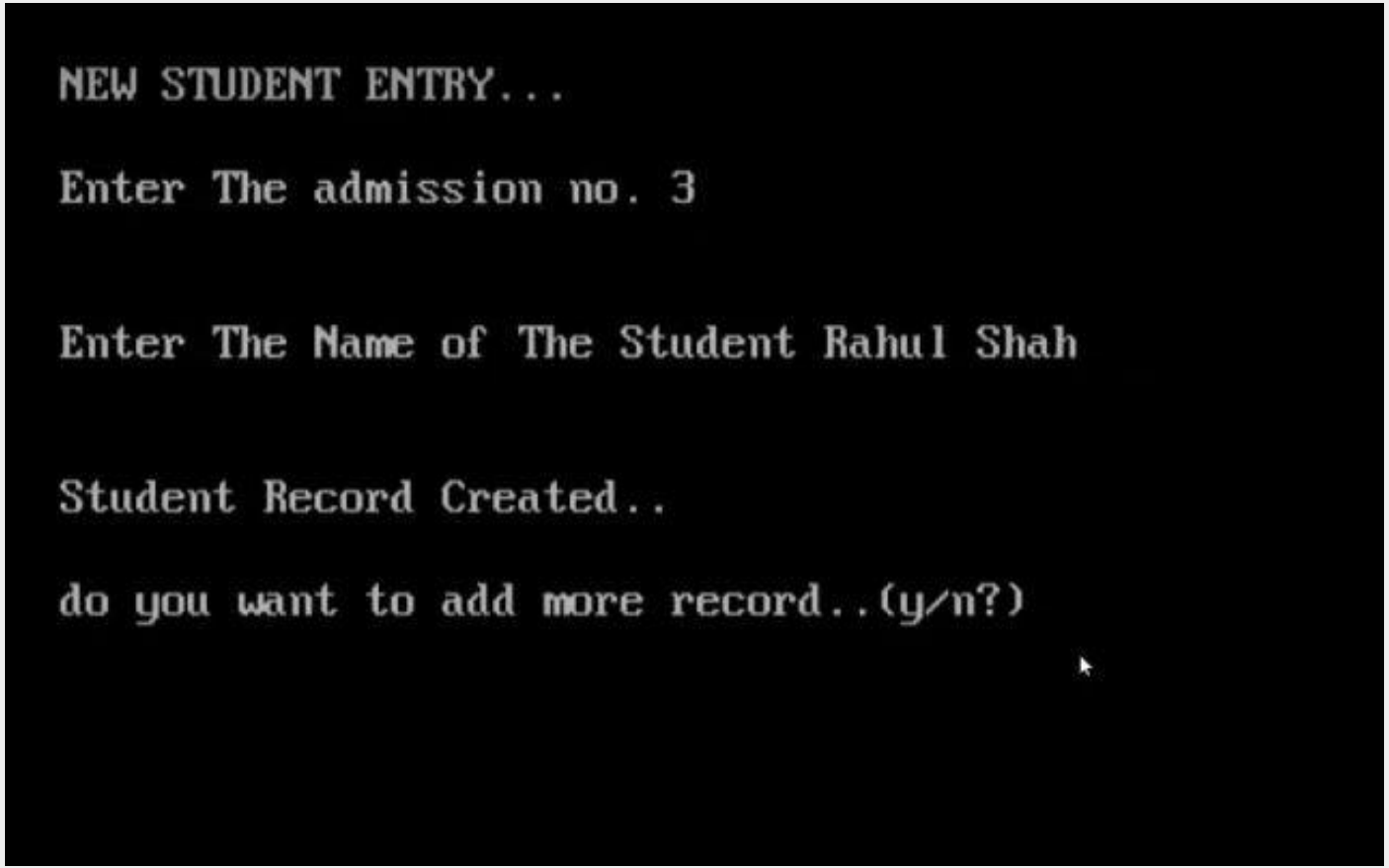

ADMINISTRATOR MENU
1.CREATE STUDENT RECORD
2.DISPLAY ALL STUDENTS RECORD
3.DISPLAY SPECIFIC STUDENT RECORD
4.MODIFY STUDENT RECORD
5.DELETE STUDENT RECORD
6.CREATE BOOK
7.DISPLAY ALL BOOKS
8.DISPLAY SPECIFIC BOOK
9.MODIFY BOOK
10.DELETE BOOK
11.BACK TO MAIN MENU
Please Enter Your Choice (1-11)

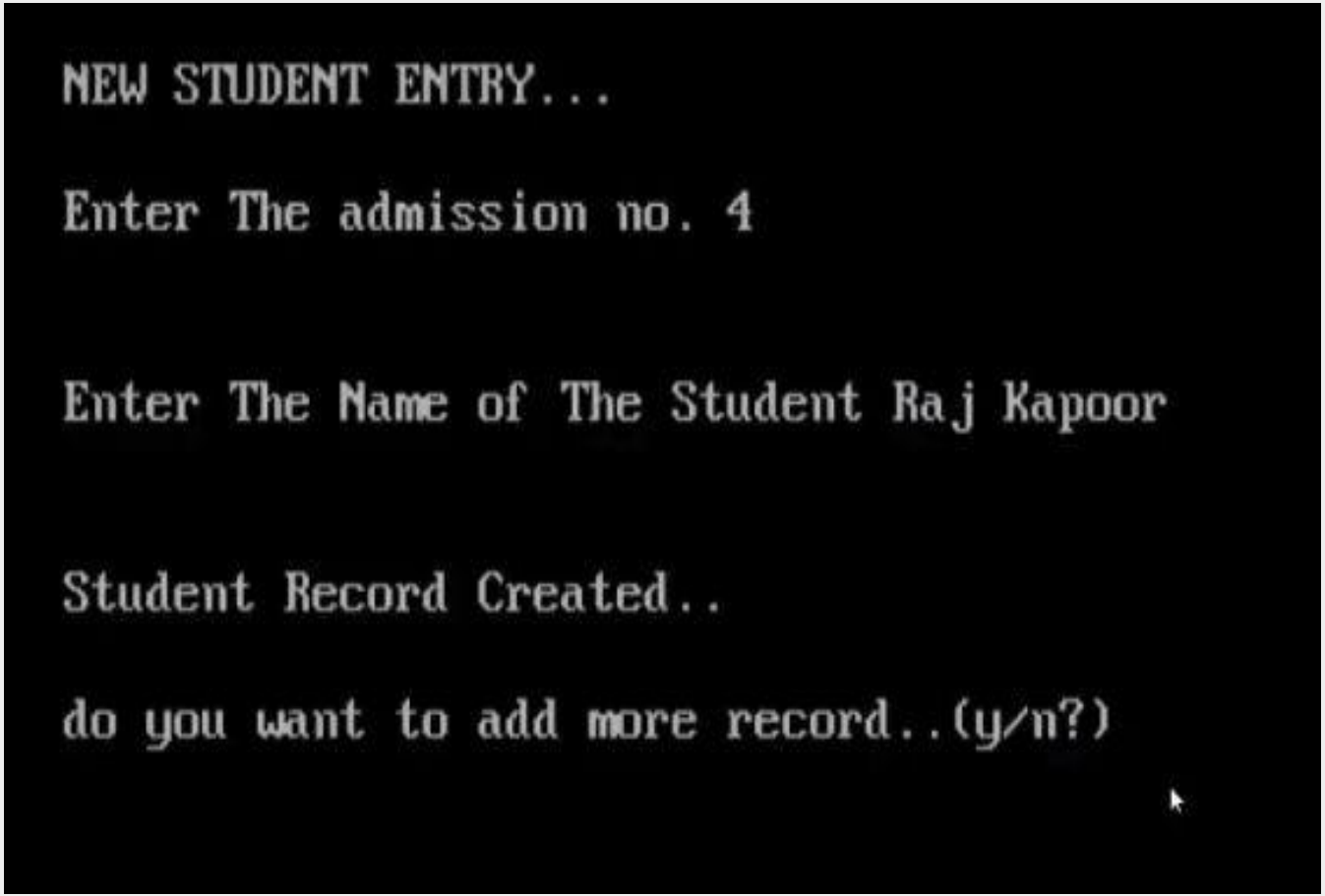

ADMINISTRATOR MENU
1.CREATE STUDENT RECORD
2.DISPLAY ALL STUDENTS RECORD
3.DISPLAY SPECIFIC STUDENT RECORD
4.MODIFY STUDENT RECORD
5.DELETE STUDENT RECORD
6.CREATE BOOK
7.DISPLAY ALL BOOKS
8.DISPLAY SPECIFIC BOOK
9.MODIFY BOOK
10.DELETE BOOK
11.BACK TO MAIN MENU
Please Enter Your Choice (1-11) 1


NEW STUDENT ENTRY...
Enter The admission no. 1
Enter The Name of The Student Rohan Mishra
Student Record Created..
do you want to add more record..(y/n?)_

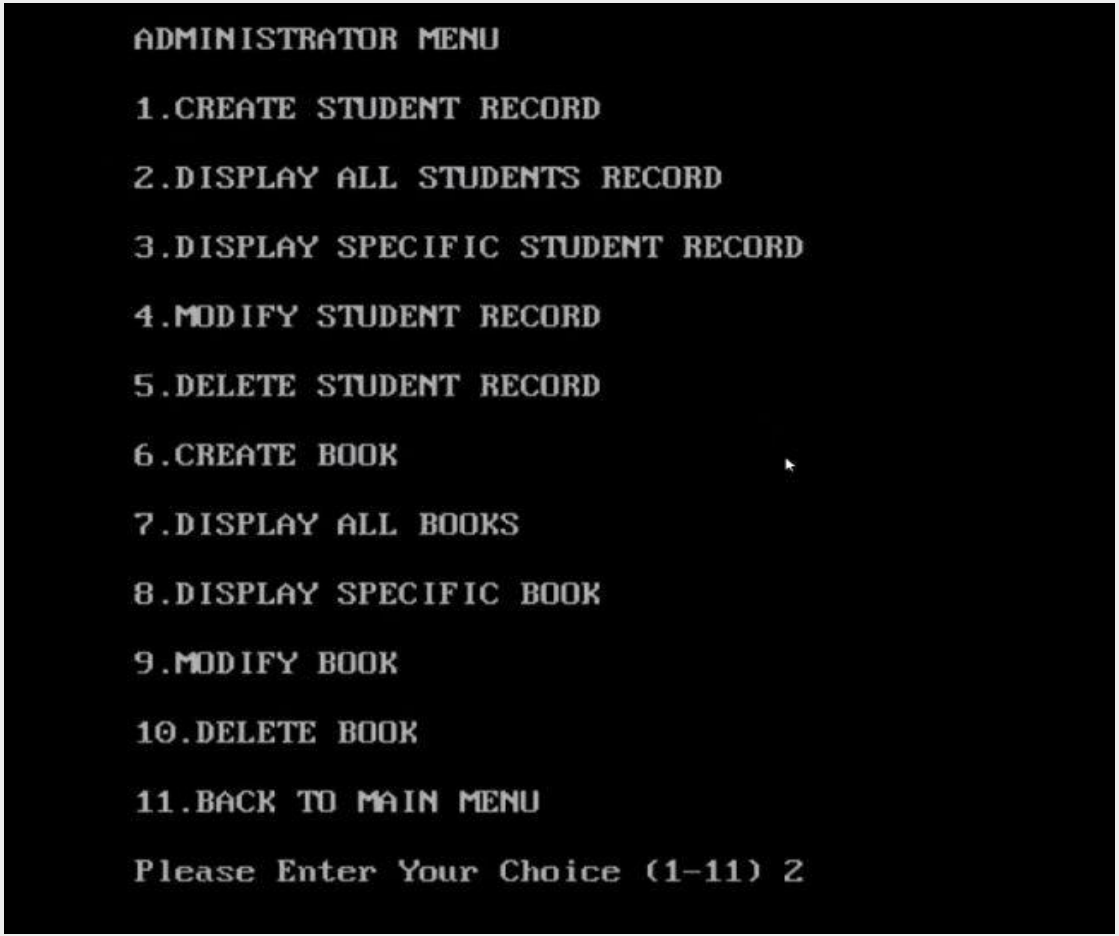

NEW STUDENT ENTRY...
Enter The admission no. 1
Enter The Name of The Student Rohan Mishra
Student Record Created..
do you want to add more record..(y/n?) y

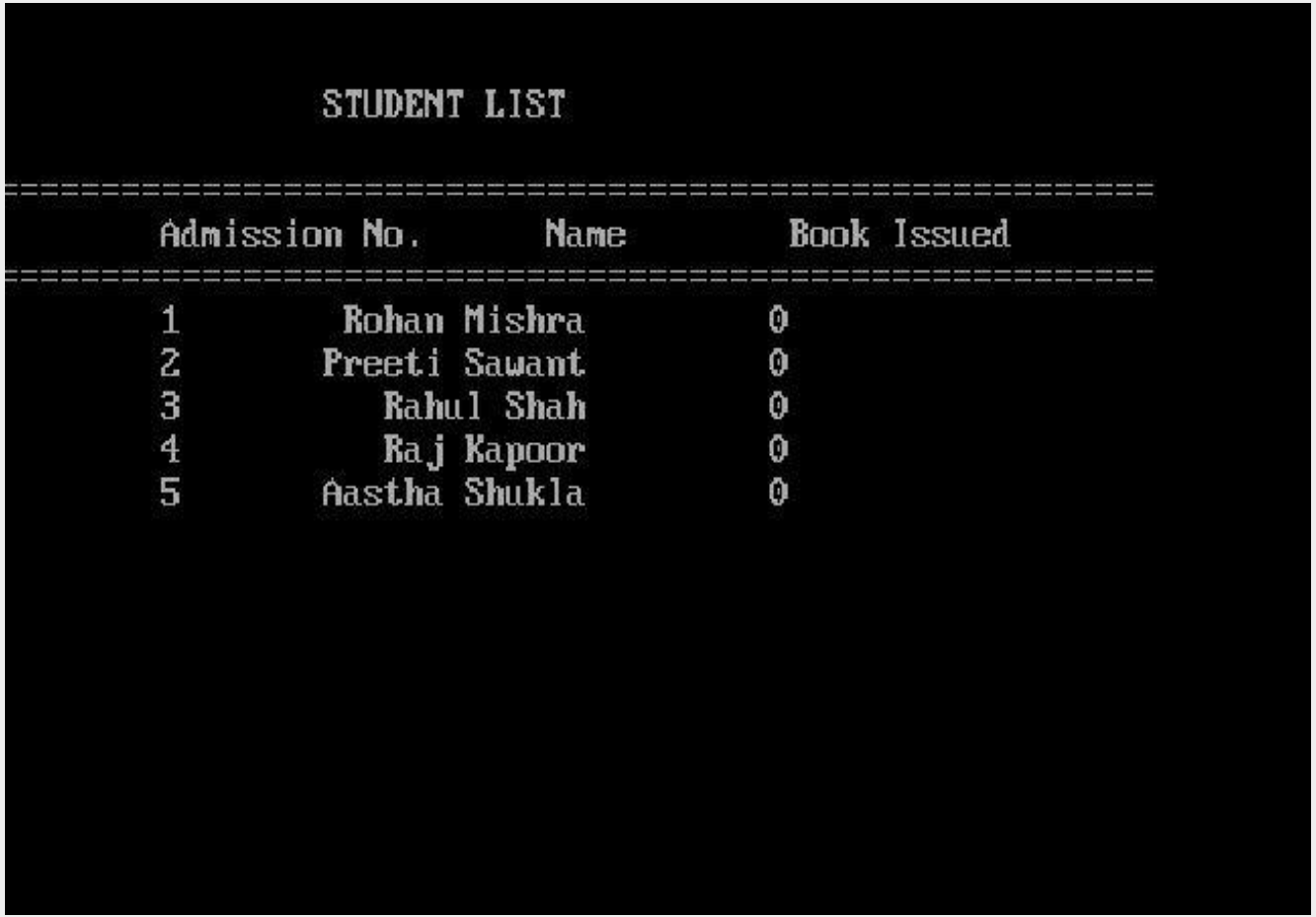
```
NEW STUDENT ENTRY...

Enter The admission no. 2

Enter The Name of The Student Preeti Sawant

Student Record Created..

do you want to add more record..(y/n?)
```


NEW STUDENT ENTRY...
Enter The admission no. 3
Enter The Name of The Student Rahul Shah
Student Record Created..
do you want to add more record..(y/n?)


NEW STUDENT ENTRY...
Enter The admission no. 4
Enter The Name of The Student Raj Kapoor
Student Record Created..
do you want to add more record..(y/n?)

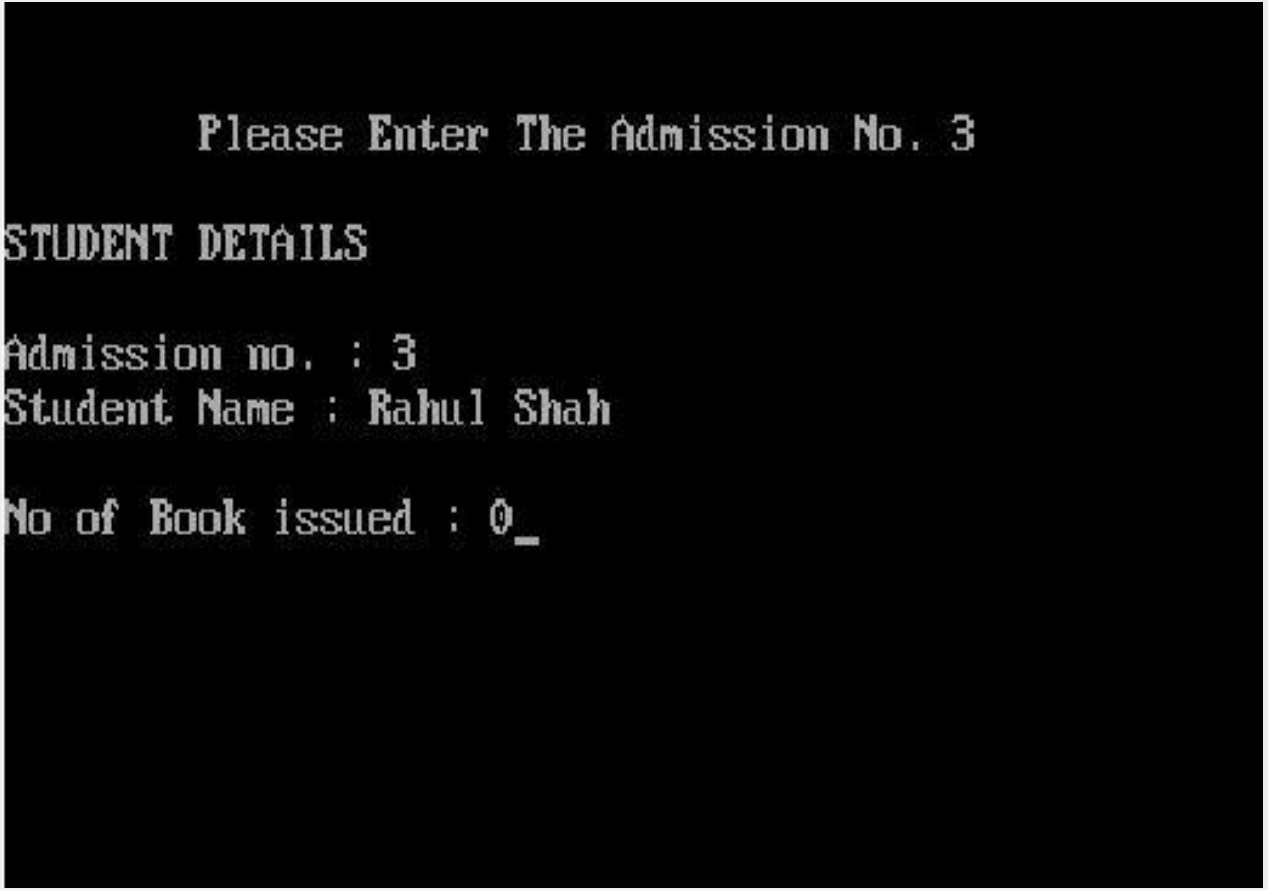
```
NEW STUDENT ENTRY...

Enter The admission no. 5

Enter The Name of The Student Aastha Shukla

Student Record Created..

do you want to add more record..(y/n?)
```


ADMINISTRATOR MENU
1.CREATE STUDENT RECORD
2.DISPLAY ALL STUDENTS RECORD
3.DISPLAY SPECIFIC STUDENT RECORD
4.MODIFY STUDENT RECORD
5.DELETE STUDENT RECORD
6.CREATE BOOK
7.DISPLAY ALL BOOKS
8.DISPLAY SPECIFIC BOOK
9.MODIFY BOOK
10.DELETE BOOK
11.BACK TO MAIN MENU
Please Enter Your Choice (1-11) 2

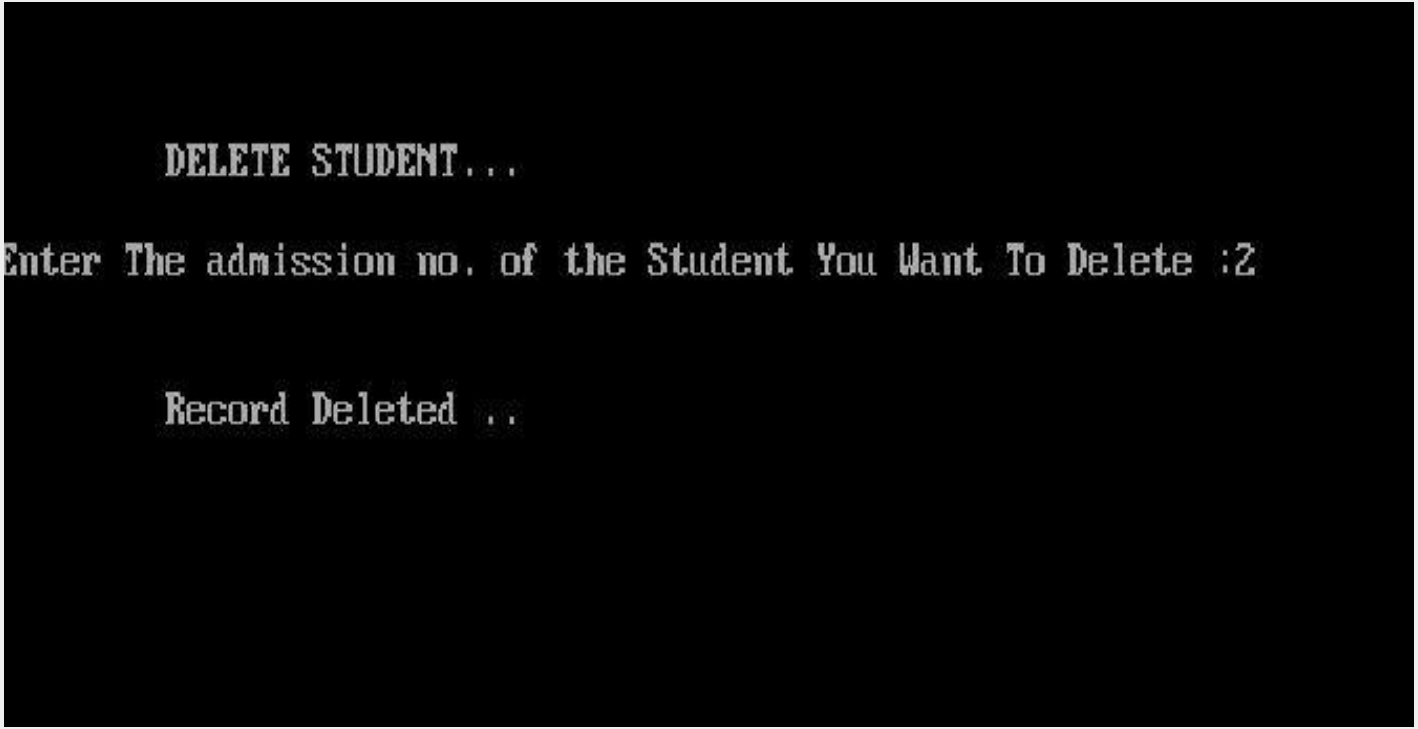


STUDENT LIST

Admission No.	Name	Book Issued
1	Rohan Mishra	0
2	Preeti Sawant	0
3	Rahul Shah	0
4	Raj Kapoor	0
5	Aastha Shukla	0


Please Enter The Admission No. 3
STUDENT DETAILS
Admission no. : 3
Student Name : Rahul Shah
No of Book issued : 0

```
        MODIFY STUDENT RECORD...

        Enter The admission no. of The student 4

Admission no. : 4
Student Name : Raj Kapoor

No of Book issued : 0
Enter The New Details of student

Admission no. : 4
Modify Student Name : Yash Shinde


         Record Updated_
```


DELETE STUDENT...
Enter The admission no. of the Student You Want To Delete :2
Record Deleted ..

```
NEW BOOK ENTRY...

Enter The book no.1

Enter The Name of The Book OOPS using C++

Enter The Author's Name E Balaguruswamy


Book Created..

Do you want to add more record..(y/n?) y
```

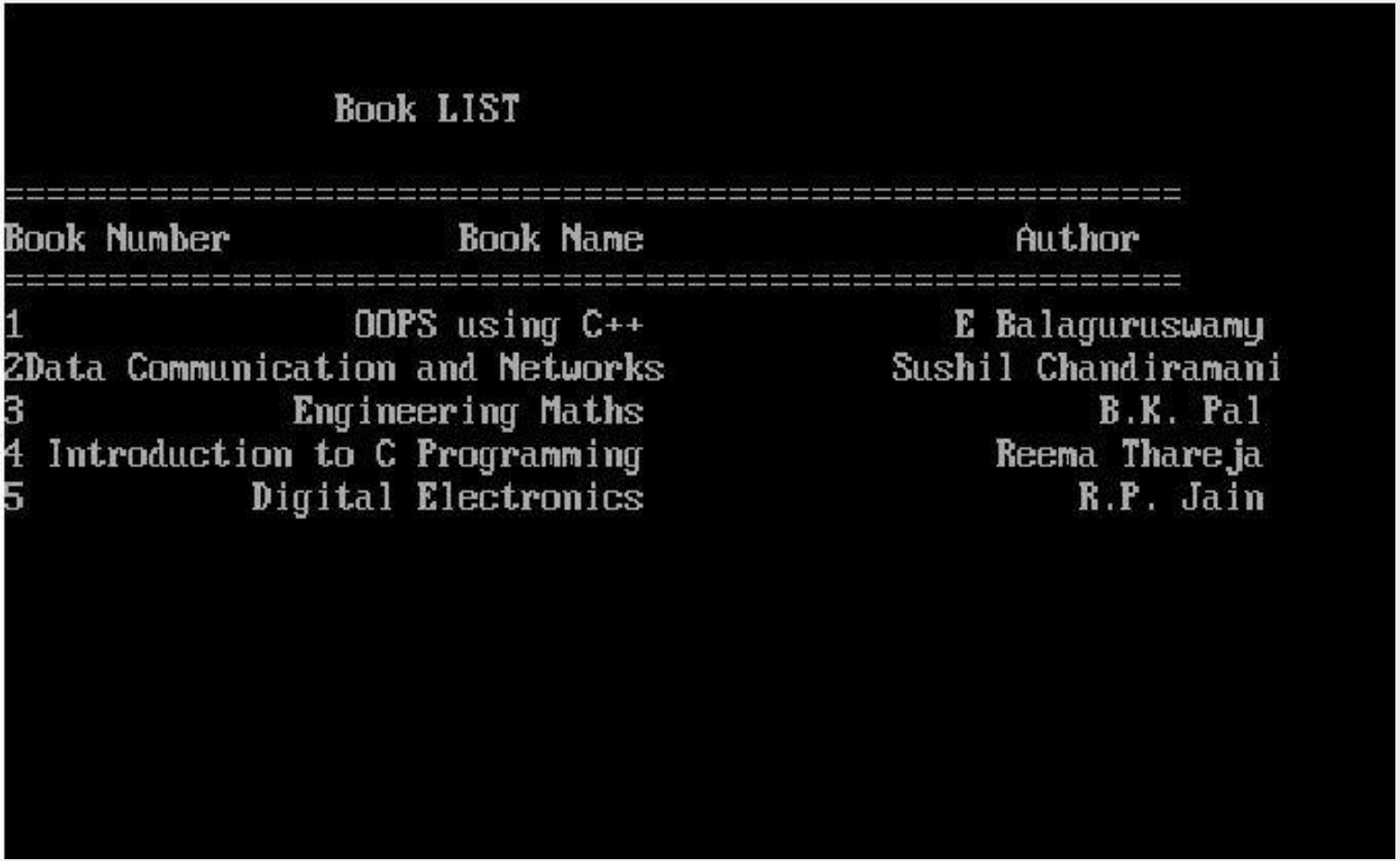
```
NEW BOOK ENTRY...

Enter The book no.2

Enter The Name of The Book Data Communication and Networks

Enter The Author's Name Sushil Chandiramani


Book Created..

Do you want to add more record..(y/n?)
```

```
NEW BOOK ENTRY...

Enter The book no. 3

Enter The Name of The Book Engineering Maths

Enter The Author's Name B.K. Pal


Book Created..

Do you want to add more record..(y/n?)
```

```
NEW BOOK ENTRY...

Enter The book no. 4

Enter The Name of The Book Introduction to C Programming

Enter The Author's Name Reema Thareja


Book Created..

Do you want to add more record..(y/n?)
```

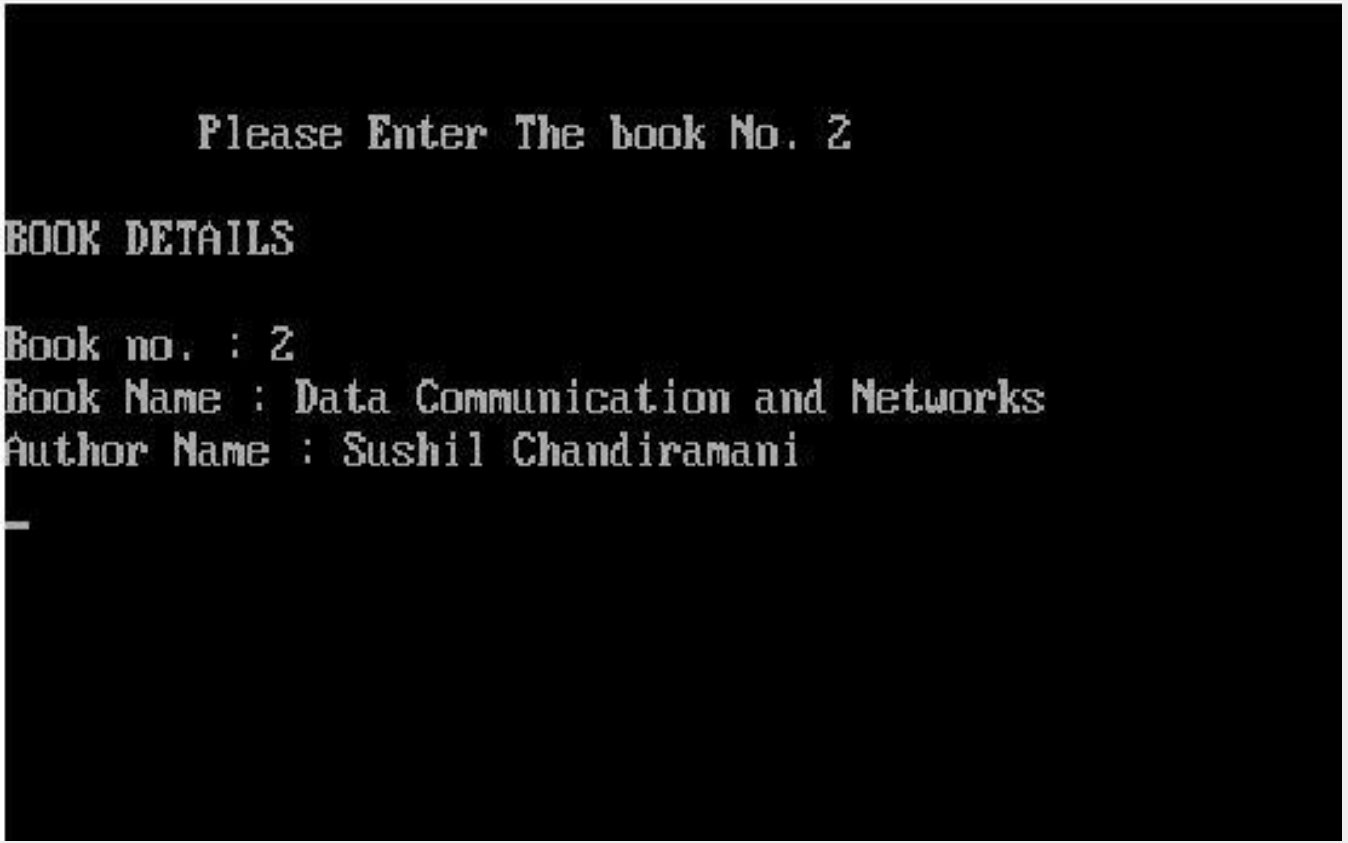
```
NEW BOOK ENTRY...

Enter The book no. 5

Enter The Name of The Book Digital Electronics

Enter The Author's Name R.P. Jain


Book Created..

Do you want to add more record..(y/n?) n
```

```
ADMINISTRATOR MENU

1.CREATE STUDENT RECORD

2.DISPLAY ALL STUDENTS RECORD

3.DISPLAY SPECIFIC STUDENT RECORD

4.MODIFY STUDENT RECORD

5.DELETE STUDENT RECORD

6.CREATE BOOK

7.DISPLAY ALL BOOKS

8.DISPLAY SPECIFIC BOOK

9.MODIFY BOOK

10.DELETE BOOK

11.BACK TO MAIN MENU

Please Enter Your Choice (1-11) 7
```

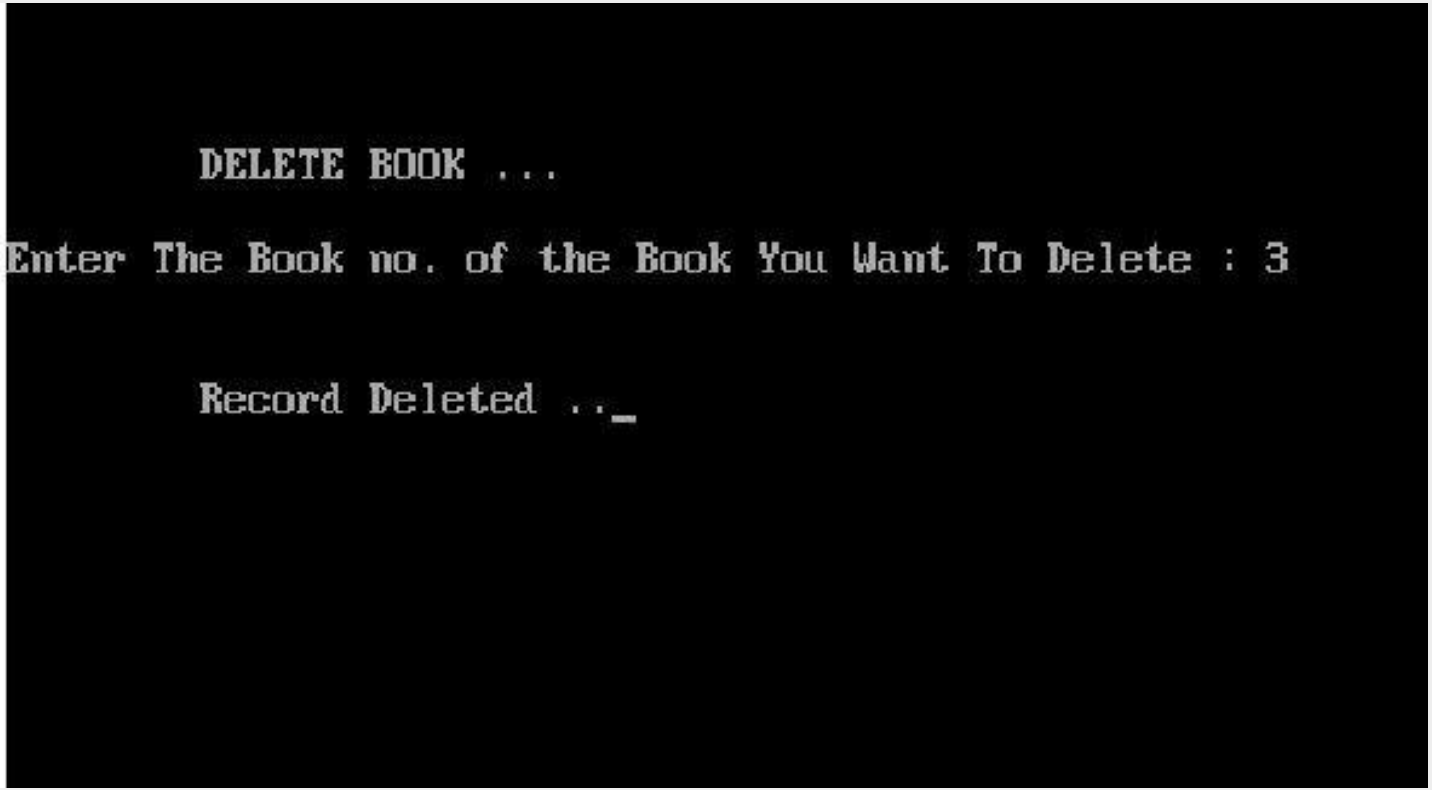


Book LIST

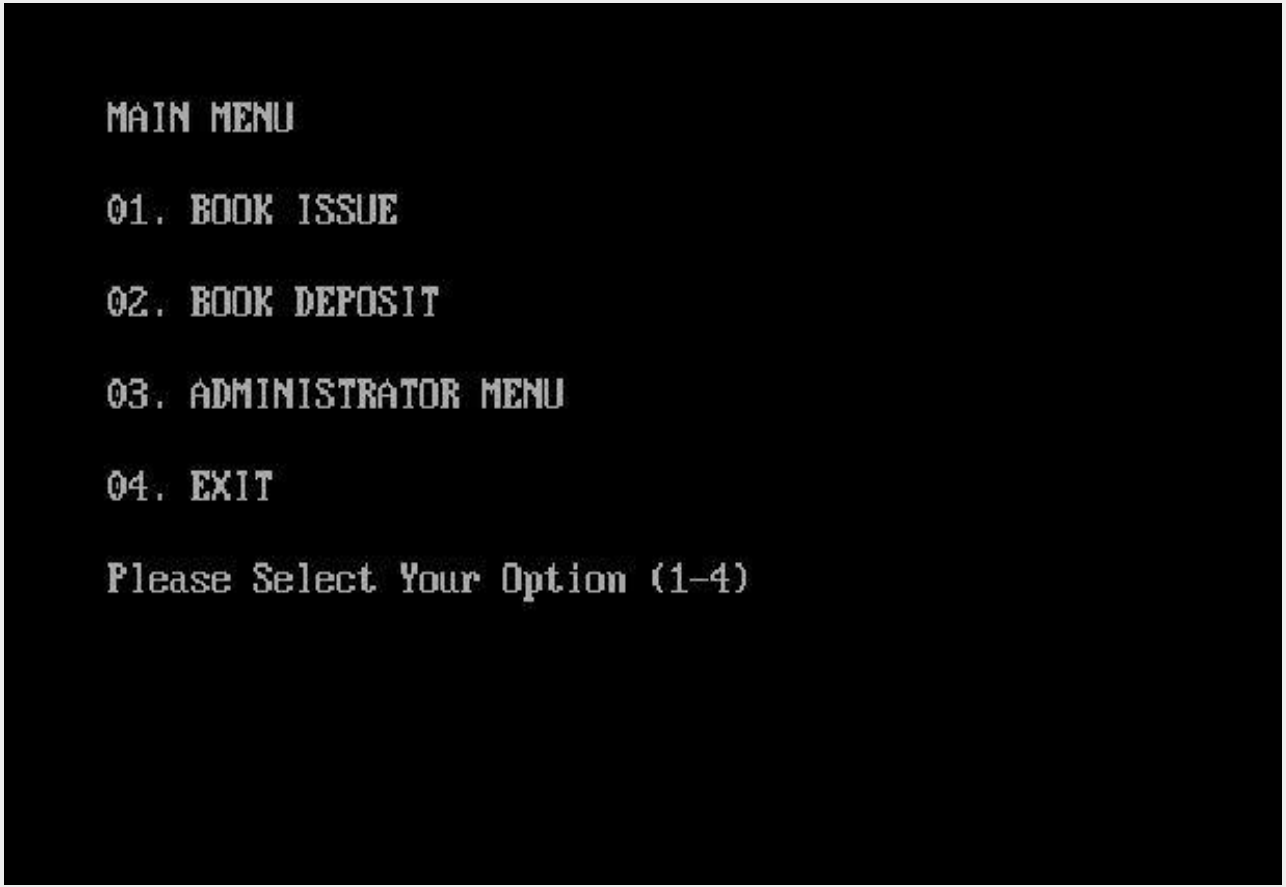
Book Number	Book Name	Author
1	OOPS using C++	E Balaguruswamy
2	Data Communication and Networks	Sushil Chandiramani
3	Engineering Maths	B.K. Pal
4	Introduction to C Programming	Reema Thareja
5	Digital Electronics	R.P. Jain


Please Enter The book No. 2
BOOK DETAILS
Book no. : 2
Book Name : Data Communication and Networks
Author Name : Sushil Chandiramani

```
        MODIFY BOOK REOCORD....

        Enter The book no. of The book 4

Book no. : 4
Book Name : Introduction to C Programming
Author Name : Reema Thareja

Enter the New Details of book

Book no. : 4
Modify Book Name : Basic Maths

Modify Author's Name of Book : B.M. Patel


         Record Updated
```


DELETE BOOK ...
Enter The Book no. of the Book You Want To Delete : 3
Record Deleted ..

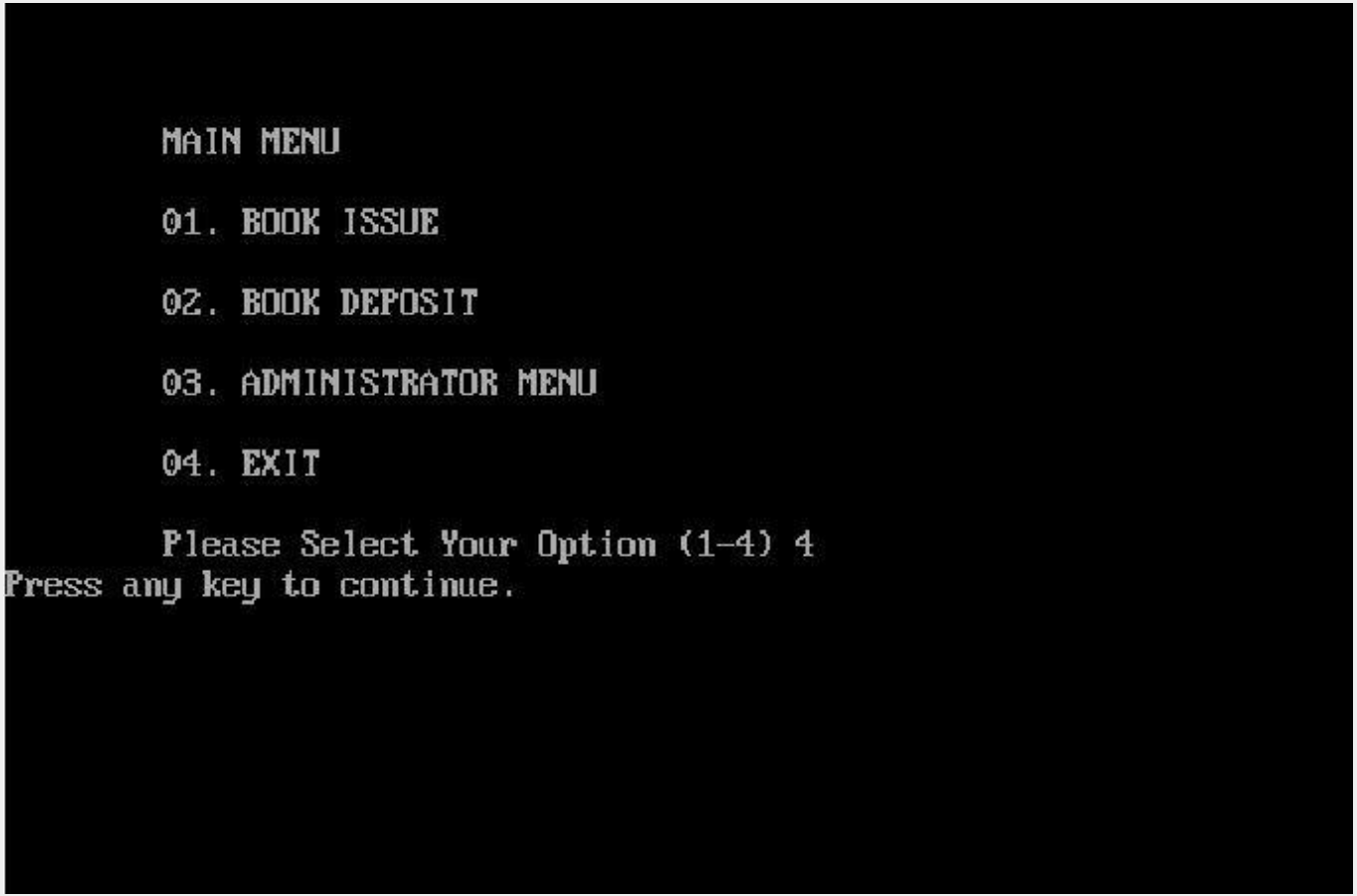
```
ADMINISTRATOR MENU

1.CREATE STUDENT RECORD

2.DISPLAY ALL STUDENTS RECORD

3.DISPLAY SPECIFIC STUDENT RECORD

4.MODIFY STUDENT RECORD

5.DELETE STUDENT RECORD

6.CREATE BOOK

7.DISPLAY ALL BOOKS

8.DISPLAY SPECIFIC BOOK

9.MODIFY BOOK

10.DELETE BOOK

11.BACK TO MAIN MENU

Please Enter Your Choice (1-11) 11
```


MAIN MENU
01. BOOK ISSUE
02. BOOK DEPOSIT
03. ADMINISTRATOR MENU
04. EXIT
Please Select Your Option (1-4)

```
BOOK ISSUE ...

        Enter The student's admission no. 1


        Enter the book no. 2

Book no. : 2
Book Name : Data Communication and Networks
Author Name : Sushil Chandiramani


         Book issued successfully

Please Note:Write the current date in backside of your book and submit within 15
 days fine Rs. 1 for each day     after15 days period
```

```
BOOK ISSUE ...

        Enter The student's admission no. 3


        Enter the book no. 1

Book no. : 1
Book Name : OOPS using C++
Author Name : E Balaguruswamy


         Book issued successfully

Please Note:Write the current date in backside of your book and submit within 15
 days fine Rs. 1 for each day     after15 days period
```

```
BOOK DEPOSIT ...

        Enter The student↓s admission no. 1

Book no. : 2
Book Name : Data Communication and Networks
Author Name : Sushil Chandiramani


Book deposited in no. of days 20


Fine has to deposited Rs. 5

         Book deposited successfully
```


MAIN MENU
01. BOOK ISSUE
02. BOOK DEPOSIT
03. ADMINISTRATOR MENU
04. EXIT
Please Select Your Option (1-4) 4
Press any key to continue.