

**JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY,  
NOIDA**

**B. Sc. I SEMESTER  
INTRO TO C PROGRAMMING PROJECT**



विद्या तत्त्व ज्योतिसमः

**TITLE OF PROJECT**

**LIBRARY MANAGEMENT SYSTEM**

**Submitted by:**

Enrollment No.	Name
BSG22061	Anjali Chaturvedi
BSG22074	Vibhu Chaudhary
BSG22005	Shreyansh Chaudhary
BSG22027	Kirti Sharma

# PROJECT SYNOPSIS

## **Aim:**

To create a command line interface for operating and maintaining library database to help members to have access to the library and for the staff to maintain it.

## **Abstract:**

To create a command line interface for operating and maintaining record for library for library staff and members. The program would first identify who is using the interface, and authenticate the person accordingly. For library staff, the program provides various management services including Add Record, View Record, Search Record, Modify Record, Delete, Exit and for students their record and can access work department. Library staff can read or modify the record but members can only read and search within the record.

## **Project Objectives:**

- To create a user-friendly command line interface of the library record management system for library staff and members.
- To create a command line interface for library employees to modify and read the records.
- Create a user-friendly "User Authentication System".
- To automate the existing manual system by the help of computerized software.
- To help members by searching in the library database to check the availability of books.
- One can get information about member's name, mobile number, college, interested fields, etc. The program has the ability to handle multiple users.

## **Topics of Intro to C used:**

- Requirement Analysis
- Developing Logic
- Representation of Logic
- Data, variables and constants, data types.
- Operators
- if, if-else, while, do-while, for, switch case in C programming
- Array (insertion, traversal, updation, etc)
- Functions
- File Handling (read, write, update)

