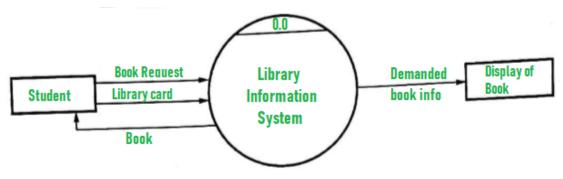
Practical no:8

 ${\bf Aim:} \textbf{Draw the function oriented diagram: Data Flow Diagram (DFD)} \; .$

1.Level 0 DFD:

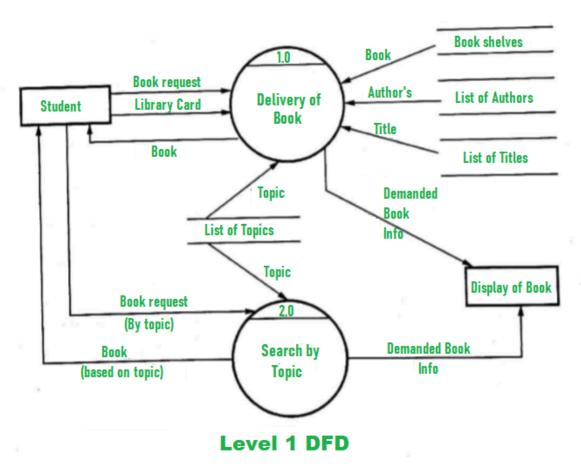


This Data Flow Diagram (DFD) shows how a Library Information System works:

- 1. **Student** requests a book using a **Library Card**.
- 2. The Library Information System processes the request.
- 3. The system retrieves and displays **book information**.
- 4. If issued, the **book** is given to the student.

It visually represents the flow of book requests and information.

2.Level 1 DFD:



This Level 1 Data Flow Diagram (DFD) for a Library Information System breaks down the process into two main functions:

1. Delivery of Book (1.0)

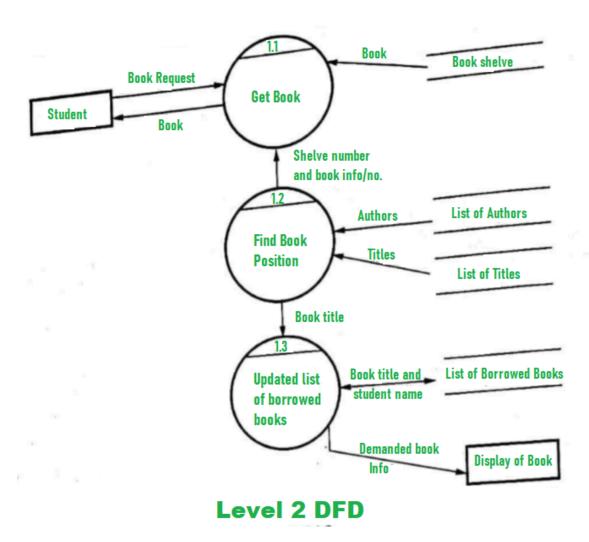
- The **Student** requests a book using a **Library Card**.
- The system retrieves book details from **Book Shelves**, **Authors**, and **Titles**.
- The book or its information is provided to the student.

2. Search by Topic (2.0)

- The student can request a book by **Topic**.
- The system searches for books based on the topic and retrieves book details.
- The demanded book information is sent to the **Display of Book**.

This DFD shows how books are searched, requested, and delivered in a library system.

3.Level 2 DFD:



This **Level 2 DFD** represents the detailed process of how a student borrows a book from the **Library Information System**:

- 1. **Get Book (1.1)** The student requests a book, and the system retrieves book details from the **Book Shelf**.
- 2. **Find Book Position (1.2)** The system locates the book by checking the **List of Authors** and **List of Titles**, then identifies the shelf number.
- 3. **Updated List of Borrowed Books (1.3)** After issuing the book, the system updates the **List of Borrowed Books** with the student's name and book title.
- 4. **Display of Book** The demanded book information is sent for display.

This diagram details the book retrieval and borrowing process.