**EXPERIMENT 4**

**Aim :**

Draw Collaboration Diagram for the problem statement.

**Theory :**

**What is Collaboration Diagram?**

A Collaboration Diagram also known as Communication Diagram offers the same information as a Sequence Diagram, but while a Sequence Diagram emphasizes the time and order of events, a Collaboration Diagram emphasizes the messages exchanged between objects in an application. Collaboration Diagrams offer the broader perspective within a process.

**Benefits of Collaboration Diagram:**

* Model the logic of a sophisticated procedure, function, or operation.
* Identify how commands are sent and received between objects or components of a process.
* Visualize the consequences of specific interactions between various components in a process.
* Plan and understand the detailed functionality of an existing or future scenario.

**Collaboration Diagram Symbols and Notation:**

* **Rectangles** represent objects that make up the application.
* **Lines** between class instances represent the relationships between different parts of the application.
* **Arrows** represent the messages that are sent between objects.
* **Numbering** lets you know in what order the messages are sent and how many messages are required to finish a process.

Collaboration Diagram for **Library Management System :**

