

```
import java.util.*;  
/**  
 * A class to store the data of Library Members  
 *  
 * @author Deepak  
 * @version 30.11.2023  
 */  
public class LibraryMember  
{  
    // instance variables  
    private String memberId;  
    private String memberName;  
    private String memberContact;  
    private ArrayList<PhysicalBook> booksBorrowed;  
  
    /**  
     * Constructor for class LibraryMember objects.  
     */  
    public LibraryMember(String memid, String memname, String memcontact)  
    {  
        memberId = memid;  
        memberName = memname;  
        memberContact = memcontact;  
        booksBorrowed = new ArrayList<>();  
    }  
  
    /**  
     * A method to get the Member Id of Library Member.  
     */  
    public String getMemberId()  
    {  
        return memberId;  
    }  
  
    /**  
     * A method to set the Member Id of Library Member.  
     */  
    public void setMemberId(String memid)  
    {  
        memberId = memid;  
    }  
  
    /**  
     * A method to get the Member Name of Library Member.  
     */  
    public String getMemberName()  
    {  
        return memberName;  
    }
```

```
/*
 * A method to set the Member Name of Library Member.
 */
public void setMemberName(String memname)
{
    memberName = memname;
}

/**
 * A method to get the Member Contact of Library Member.
 */
public String getMemberContact()
{
    return memberContact;
}

/**
 * A method to set the Member Contact of Library Member.
 */
public void setMemberContact(String memcontact)
{
    memberContact = memcontact;
}

/**
 * An ArrayList to store the data of the PhysicalBook class.
 */
public ArrayList<PhysicalBook> getBooksborrowed()
{
    return booksBorrowed;
}

/**
 * A method to add the books borrowed by Library Member.
 */
public void addBooksBorrowed(PhysicalBook book)
{
    if (booksBorrowed.contains(book))
    {
        System.out.println("Book already borrowed");
    }
    else
    {
        booksBorrowed.add(book);
    }
}

/**
 * A method to print the details of Library Member.

```

```
 */
public void printDetails()
{
    System.out.println("Member Id: " + memberId);
    if (booksBorrowed.isEmpty())
    {
        System.out.println("No books borrowed");
    }
    else
    {
        System.out.println("Books borrowed: ");
        for (PhysicalBook book : booksBorrowed)
        {
            System.out.println("* " + book.getBookTitle());
        }
    }
}

/**
 * A method to get the the number of books borrowed by the Library Member.
 */
public int getNumberOfBooksBorrowed()
{
    return booksBorrowed.size();
}
```