

Class Representation Of Library Management System

```
class Book{
```

```
String Bookid ;
```

```
String Department ;
```

```
float Cost ;
```

```
String Publisher ;
```

```
String Author ;
```

```
int BookStatus;
```

```
int PublisherPno ;
```

```
String PublisherAddress ;
```

```
Book(){
```

```
//Constructor
```

```
}
```

```
Book(arguments.....){
```

```
//Constructor with argument
```

```
}
```

```
void getBookData(){
```

```
//get data for the book
```

```
}
```

```
void insertBookDataInDataBase(){
```

```
//database entry
}  
void updateBookStatus(String Bookid){  
//update book status in dataBase  
}  
}
```

```
class User{
```

```
int Userid;  
String Name;  
int Pno;  
String Email;  
String Address;  
int NoOfBookHolding;  
int AccountStatus;
```

```
User(){  
//Constructor  
}
```

```
User(arguments.....){  
//Constructor with argument  
}
```

```
void getUserData(){  
//get data for the user  
}
```

```
void insertUserDataInDataBase(){  
//database entry  
}
```

```
void updateUserStatus(int Userid){  
    //update Account Status in dataBase  
}
```

```
int checkNoOfBookHolding(int Userid){  
    //check NoOfBookHolding in dataBase and return the count  
}
```

```
void updateNoOfBookHolding(int Userid){  
    //update NoOfBookHolding in dataBase  
}
```

```
}
```

```
class BookIssue{  
    String Bookid ;  
    int Userid ;  
    String BorrowDate;  
    String ScheduledReturnDate;  
    String ActualReturnDate;  
    int Fine;  
    int BookIssueStatus ;
```

```
    BookIssue(arguments.....){  
        //Constructor with argument  
    }
```

```
void getBookIssueData(){  
    //get data for the book issue  
}
```

```
void insertBookIssueDataInDataBase(){  
    //database entry  
}
```

```
void updateBookIssueStatus(int Userid, String Bookid){  
    //update BookIssueStatus in dataBase  
}
```

```
int calculateFine(int Userid, String Bookid){  
    //calculate fine and return it  
}
```

```
void updateActualReturnDate(int Userid, String Bookid){  
    //update NoOfBookHolding in dataBase  
}
```

```
void updateFine(int Userid, String Bookid){  
    //update Fine in dataBase  
}  
}
```

```
class BookLostOrDamagedOrSold{  
    String Bookid;  
    int Userid;  
    int BookLostDamagedSold;  
    int FinePrice;
```

```
BookLostOrDamagedOrSold(arguments.....){  
    //Constructor with argument  
}
```

```
int calculateFine(int Userid, String Bookid){  
    //calculate fine and return it  
}
```

```
void updateBookLostDamagedSold(int Userid, String Bookid){  
    //update NoOfBookHolding in dataBase  
}
```

```
void updateFine(int Userid, String Bookid){  
    //update Fine in dataBase  
}  
}
```

```
class MainClass{
```

```
    public static void main(String[] args) {  
        //create classes objects call their methods using user request  
        //display options to choose  
    }  
}
```

