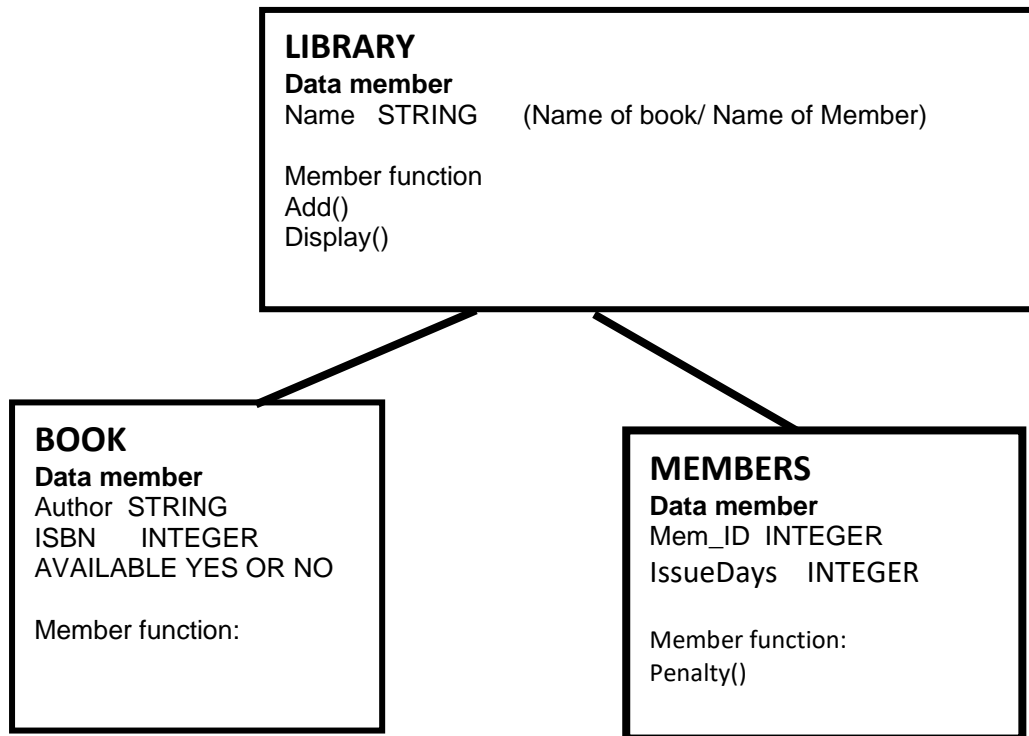# SET-1(EVEN PC NUMBERS)
F. Y. BSc IT Semester 2
Internal Practical Exam
DSC-3 Object Oriented Programming Methodology
Date:05/05/22

Create a following classes and relationships with given data member and member functions.

```
LIBRARY
Data member
Name   STRING      (Name of book/ Name of Member)

Member function
Add()
Display()
```

```
BOOK
Data member
Author  STRING
ISBN    INTEGER
AVAILABLE YES OR NO

Member function:
```

```
MEMBERS
Data member
Mem_ID INTEGER
IssueDays   INTEGER

Member function:
Penalty()
```

Create the **menu-driven program** in java to perform following operations for Library management.

1. Add 3 Books in the library and display the details of books in proper format.
2. Add atleast 2 members in the library.
3. If issue days is more than 10 DAYS then charge penalty Rs 10 per day and display total penalty charged to the member.

BOOKNAME	AUTHOR	ISBN	AVAILABLE
JAVA	JOHNS	1223-1223	YES
JCR	ROBIN	2233-1111	NO
C++	JACK	444-111-2	YES

MEB_ID	NAME	ISSUE DAYS
1001	TANISHI	12
1002	ARUSH	14

PENALTY DETAILS:

MEMBER NAME	ISSUE DAYS	PENALTY CHARGE

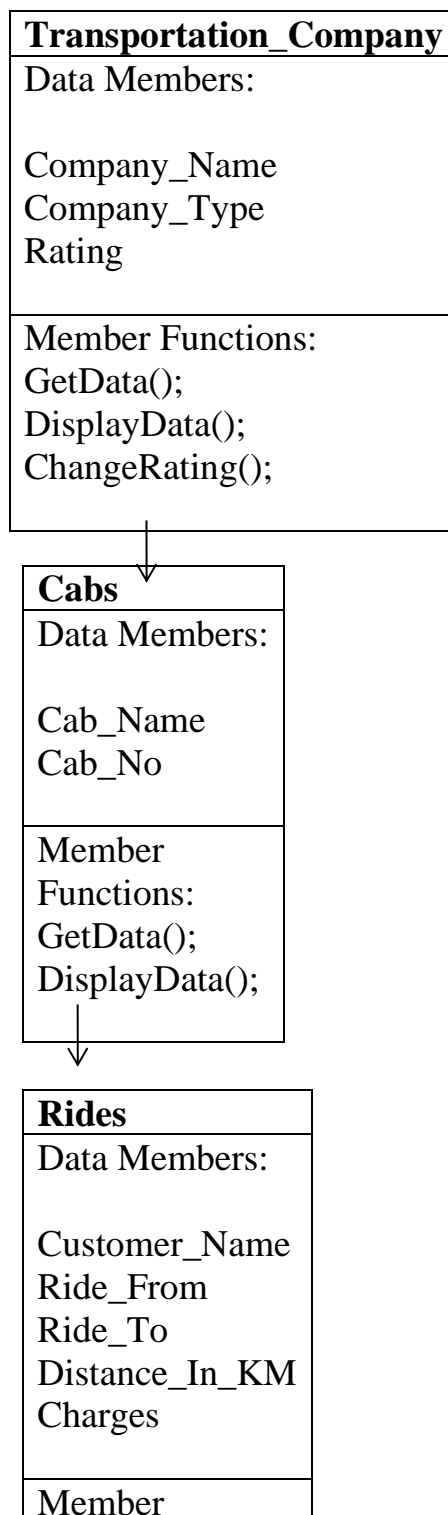| TANISHI | 12 | Rs20 |
| ARUSH | 14 | Rs40 |

_____**End**_____

F. Y. BSc IT Semester 2
Internal Practical Exam
DSC-3 Object Oriented Programming Methodology

Date:05/05/22

Create a following classes and relationships with given data member and member functions.

Transportation_Company
Data Members: Company_Name Company_Type Rating
Member Functions: GetData(); DisplayData(); ChangeRating();

Cabs
Data Members: Cab_Name Cab_No
Member Functions: GetData(); DisplayData();

Rides
Data Members: Customer_Name Ride_From Ride_To Distance_In_KM Charges
Member

```
Functions:
CalCharge();
CalTotalKm();
```

Q.1 Create a **menu driven** program in java to develop above classes using inheritance. Take proper data input and output functions.

Q.2 Develop function ChangeRating() in company class and modify Rating for by taking input from user.

Q.3 Calculate charge for a each ride by taking input as following

Distance < 100 KM Charge = 40 Rs. /KM
Distance >100 KM and < 200 KM Charge = 50 Rs. /KM
Distance > 200 KM Charge = 70 Rs. /KM

Expected Output:

Company Name	Cab_Name	Customer_name	Ride_From	Ride_To	Charges	Rating
Ola	Wagonar	ABC	Adajan	ParlePoint	300	4
Uber	HondaCity	XYZ	Surat	Navsari	1000	4

_____End_____