

Q1) Create a class named 'Member' having the following members:

Name : String

Age : int

Phone number : String

Address : String

Salary : double

It also has a method named 'printSalary' which prints the salary of the members.

Create two classes 'Employee' and 'Manager' inherits the 'Member' class.

The 'Employee' and 'Manager' classes have data members such as. :

Specialisation : String

Department : String

Now, create a Main class which has the main method in it and assign name, age, phone number, address and salary to an employee and a manager by making an object of both of these classes and print the same.

Q2) Create a class Student and the subclasses DayScholar and Hosteller,

**Class Student:**

**Instance Variables:**

studId : integer,

studName :String,

examFee:double

**Methods:**

displayDetails(): void,

payFee() :double

Provide suitable constructors

**Class DayScholar :**

**Instance Variables :**

transportFee: doubleMethods:

## Class Hosteller :

### Instance Variables:

hostelFee: double

Provide suitable constructors

Create a "Main Class". In this create two objects for each DayScholar and Hosteler classes. Invoke payFee() method with suitable amount and obtain the remaining amount to be paid.

Q3)

What is the use of 'this' and 'super' keyword in java explain with example.

Q4)

Create a Class Bank with the following fields:

branchName: String

IfscCode: String

and a non-static method:

displayDetails(): void

The above method will display the details of the bank(branchName, ifscCode)

Create 2 child classes of the above Bank class: AxisBank, ICICIBank with the following fields

rateOfInterest: double

In both the classes override the displayDetails() method to display their details(branchName, ifscCode, rateOfInterest )

Inside the Axis Bank define another method :

getCreditCard(): void

This method will simply print "Get the Credit Card from the Axis bank"

Create a Demo class and define the following method:

```
public static Bank getBank(String bank);
```

implement the above method such as if we supply "axis" then it should return Axis bank object and if supply "icici" then it should return ICICI bank object and if we supply any invalid value then it should return null.

Note: returned bank object should have all the details. Call the above method from the main method of Demo class by taking input from the user and print the Bank details by calling displayDetails() method. If the returned bank object is Axis bank then call the getCreditCard() method.