Java & DSA - ASSIGNMENT - DAY 7

Please practice the following activities

1. Create a class Restaurant (name, phone, address, operating hours, pricePerPerson, ratings) and with default and parameterized constructors. Also, create the methods to take input from User and to show the data.

2. Create a class BankAccount(accountNumber, balance, name, phone, email) and showcase the concept of encapsulation by marking the required attributes as private and also implement setters and getters to have an access on those attributes.

3. Create a class User(name, phone, email, gender, address) and PrimeUser(validTill, benefits) to exhibit inheritance.

4. Create an abstract class Cab with abstract method bookCab(String source, String destination, int distance). Now, create child classes MiniCab, SedanCab, Luxury Cab and inherit them with abstract class Cab to implement the abstract method and showcase the concept of abstraction.

5. Create a parent class Theme with some method of your choice and a child class MyTheme. Showcase the scenario where MyTheme shall not override the methods of the Parent class Theme.