Java & DSA - ASSIGNMENT - DAY 8

Please practice the following activities

1. Create a class User(name, phone, email, gender, address) with suitable methods in the package com.amazon.model and another class App with main method in the package com.amazon.app. Now, create the object of the class User and execute its methods.

2. Create a class User(name, phone, email, address) in package com.amazon.model with protected attributes phone, email and address. Now, create a child class and App with main method in package com.amazon.app and showcase how to access the protected data.

3. Create an interface Payment with suitable abstract methods and implement it by creating an anonymous class.

4. Create an interface Cab with abstract method bookCab(String source, String destination, int distance). Now, create child classes MiniCab, SedanCab, Luxury Cab and implement them with interface Cab to implement the abstract method and showcase the concept of run time polymorphism using interfaces.

5. Create a class BankAccount(number, name, balance etc..) with suitable methods deposit(int amount) and withdraw(int amount). If user withdraws an amount which is more than the available balance, throw a User Defined Exception and also create mechanism to handle the same.