```
Q2. Design an app for calling taxis (e.g. Uber).
Ans:
Class, Object, Behaviors, Input, Output, Data
AppSystem
      Data: feeCalculator, automaticPayment
      Behaviors: connect(), trackDrivers(),
Passenger
      Data: Name, phoneNumber, Address, bookingHistory
      Behaviors -> loginToAppSystem(), setLocation(), selectCabType(), matchDriver(),
                   makePayment(), rating()
Driver
      Data: Name, CarType carType(), bookingHistory
      Behaviors -> register(), matchPassenger(), approveRequest(), disapproveRequest(),
updateStatus()
Phone
      Behaviors -> passengerLogin(), driverLogin()
AppSystem callTaxi
callTaxi.trackDrivers()
-----Program-----
Passenger ann
Driver christopher
Phone annPhone
Phone christopherPhone
```

```
trackDrivers() {
     annPhone.passengerLogin()
     christopherPhone.driverLogin()
     if(ann.setLocation() != null) {
          ann.chooseCarType()
    }
     else {
          ann.cantChooseCarTypes()
     }
}
public class AppSystem {
public static void main(String args[]) {
     System.out.println("Which car type do you want?");
     CarType carType = new CarType();
     MatchDriver matchDriver = new MatchDriver();
     if (CarType.isRegular()) {
          System.out.println("I want regular car type.");
      }
      if (CarType.isIntermediate()) {
          System.out.println("I want intermediate car type.");
      }
      else {
           System.out.println("I want high level car type.");
       }
       if(ann.chooseCarType() != null) {
          ann.matchDriver()
          christopher.matchPassenger()
       }
```

```
else {
         ann.cantMatchDrivers()
}
if (matchDriver.hasApproved()) {
         System.out.println("Make a payment.");
}
else {
         System.out.println("Disapprove request.");
}
```