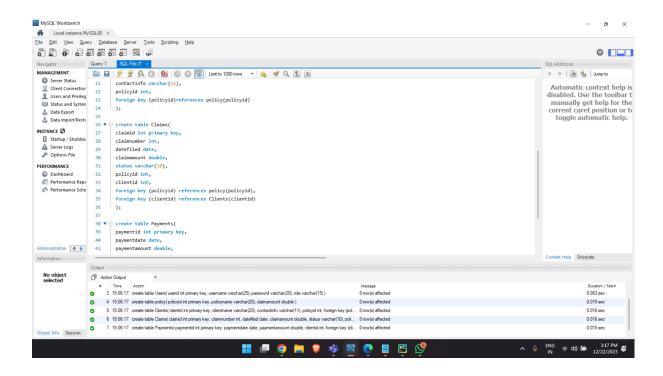
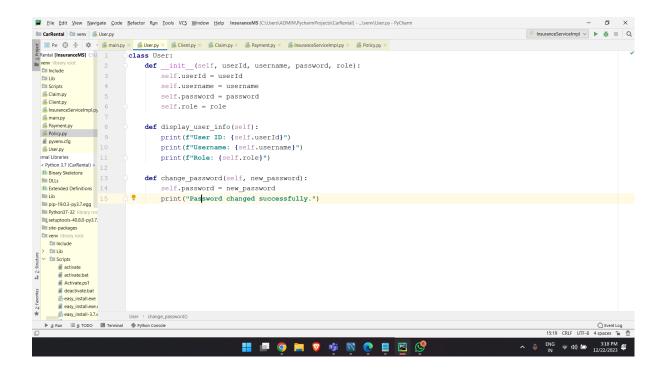
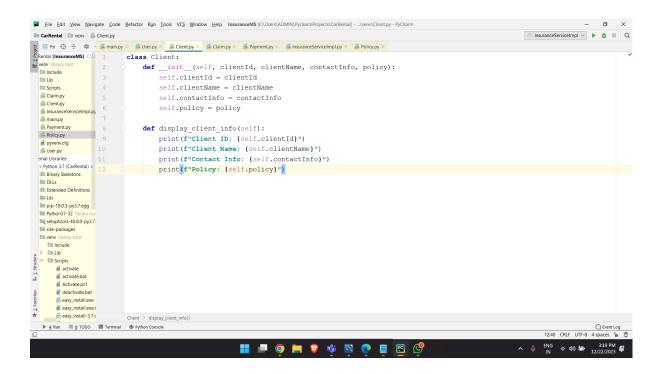
1.Create SQL Schema from the following classes, use the class attributes for table column names.



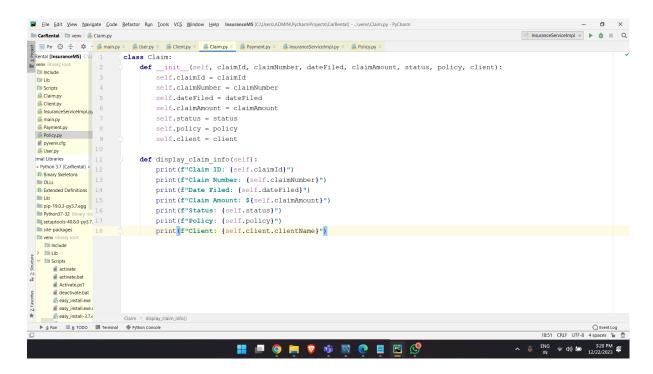
- 1. Create the following model/entity classes within package entity with variables declared private, constructors.
- 1. Define `User` class with the following confidential attributes: a. userld; b. username; c. password; d. role;



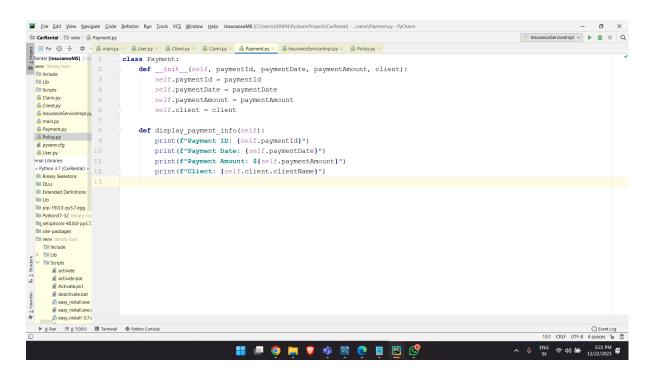
2. Define `Client `class with the following confidential attributes: a. clientld; b. clientName; c. contactInfo; d. policy;//Represents the policy associated with the client



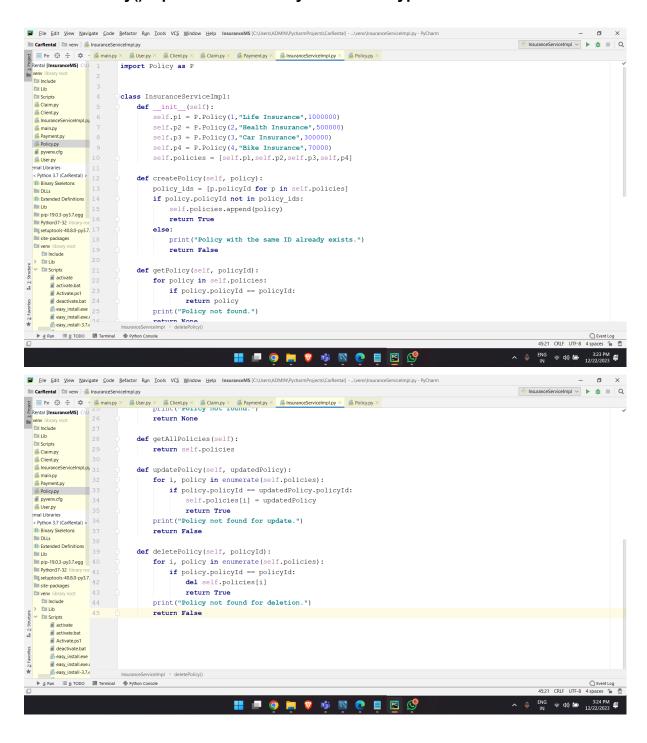
3. Define `Claim` class with the following confidential attributes: a. claimId; b. claimNumber; c. dateFiled; d. claimAmount; e. status; f. policy;//Represents the policy associated with the claim g. client; // Represents the client associated with the claim



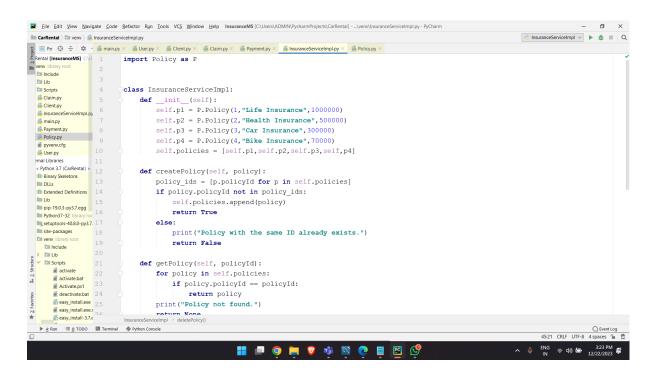
4.. Define `Payment `class with the following confidential attributes: a. paymentId; b. paymentDate; c. paymentAmount; d. client; // Represents the client associated with the payment



- 3. Define IPolicyService interface/abstract class with following methods to interact with database Keep the interfaces and implementation classes in package dao
- a. createPolicy() I. parameters: Policy Object II. return type: boolean b. getPolicy() I. parameters: policyId II. return type: Policy Object c.getAllPolicies() I. parameters: none II. return type: Collection of Policy Object d.updatePolicy() I. parameters: Policy Object II. return type: boolean e. deletePolicy() I. parameters: PolicyId II. return type: boolean



6. Define InsuranceServiceImpl class and implement all the methods InsuranceServiceImpl



7. Create a utility class DBConnection in a package util with a static variable connection of Type Connection and a static method getConnection() which returns connection.

```
File Edit View Navigate Code Refactor Run Iools VCS Window Help InsuranceMS [C\Users\ADMIN\PycharmProjects\CarRental] -_\ven\DBConnection.py - PyCharm
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      - 6 ×
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DBConnection ∨ ▶ # ■ Q
    ■ CarRental 〉 ■ venv 〉 💪 DBConnection.py
| The connection | The 
         | Scilentry | Scil
                                                                                                                                                         if DBConnection.connection is None or not DBConnection.connection.is_connected():
                                                                                                                                                                                                                        m = con.connect(user='root', password='root', port='3306', database='InsuranceManagement')
                                                                                                                                                                                                   except mysql.connector.Error as e:
                                                                                                                                                                                                                     print("Error connecting to the database: ", e)
          OLLS 14
Ill Extended Definitions 15
Ill pip-19.03-py3.7.egg 16
Python37-32 library roc 17
Run: DBConnection ×

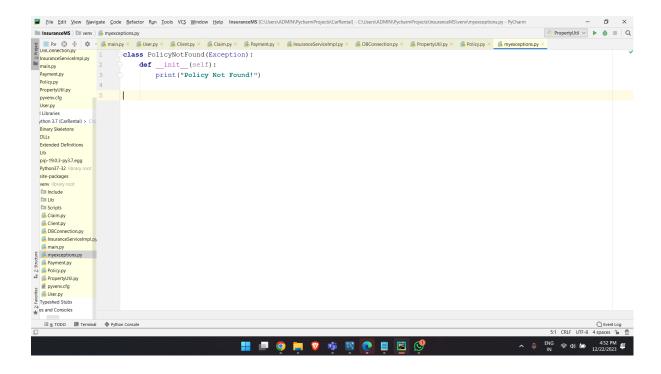
C: VISEPTS ADM
                                                                                                                               con1 = DBConnection.get_connection()

          To C:\Users\ADMIN\PycharmProjects\CarRental\venv\DC:\python.exe C:\Users\ADMIN\PycharmProjects\CarRental\venv\DBConnection.py
     Process finished with exit code 0
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          ▶ 4: Run 🗏 6: TODO 🔼 Terminal 🔮 Python Console
```

Connection properties supplied in the connection string should be read from a property file.

- 8. Create the exceptions in package myexceptions Define the following custom exceptions and throw them in methods whenever needed. Handle all the exceptions in main method,
- 1. PolicyNotFoundException :throw this exception when user enters an invalid patient number which doesn't exist in db



9. Create class named MainModule with main method in package mainmod. Trigger all the methods in service implementation class.

