

Nama : Mutiara Permata Putri

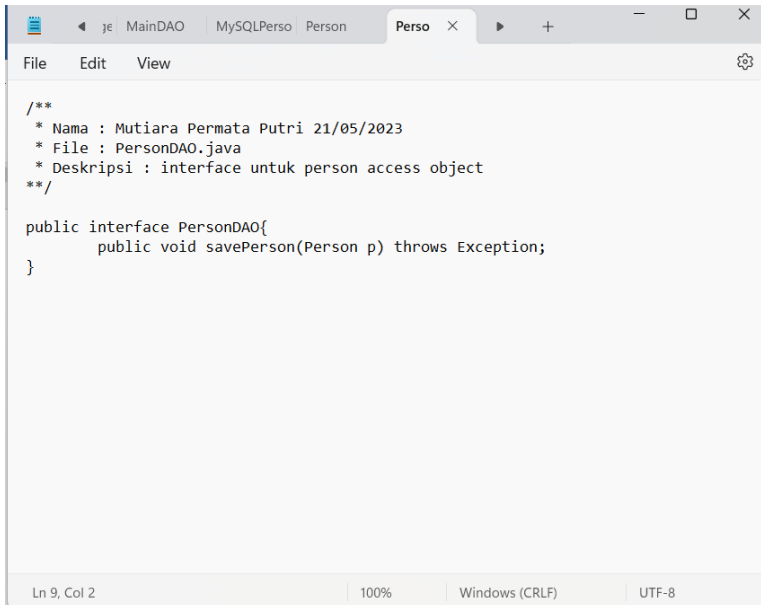
NIM : 24060121140154

LAB : C1

TUGAS PRAKTIKUM 9

1. Screenshot Notepad

a. PersonDAO.java

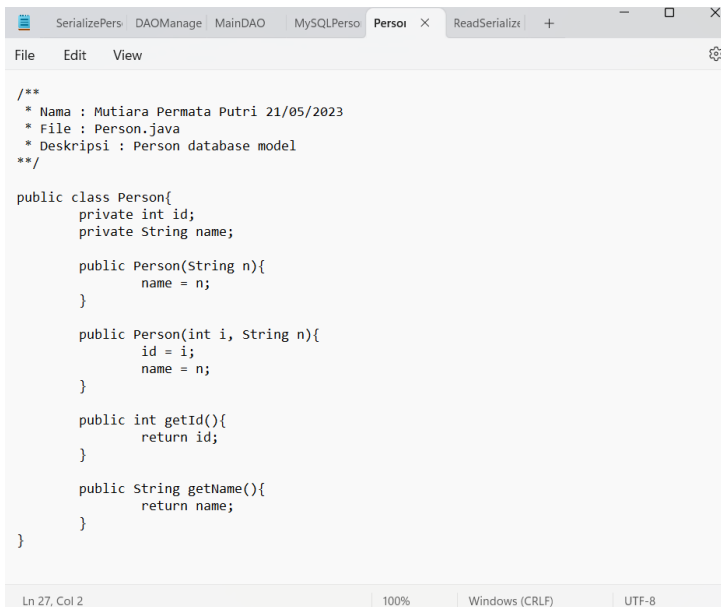
A screenshot of a Notepad window titled 'Perso'. The window has a menu bar with 'File', 'Edit', and 'View'. The code content is as follows:

```
/**
 * Nama : Mutiara Permata Putri 21/05/2023
 * File : PersonDAO.java
 * Deskripsi : interface untuk person access object
 */

public interface PersonDAO{
    public void savePerson(Person p) throws Exception;
}
```

The status bar at the bottom shows 'Ln 9, Col 2', '100%', 'Windows (CRLF)', and 'UTF-8'.

b. Person.java

A screenshot of a Notepad window titled 'Person'. The window has a menu bar with 'File', 'Edit', and 'View'. The code content is as follows:

```
/**
 * Nama : Mutiara Permata Putri 21/05/2023
 * File : Person.java
 * Deskripsi : Person database model
 */

public class Person{
    private int id;
    private String name;

    public Person(String n){
        name = n;
    }

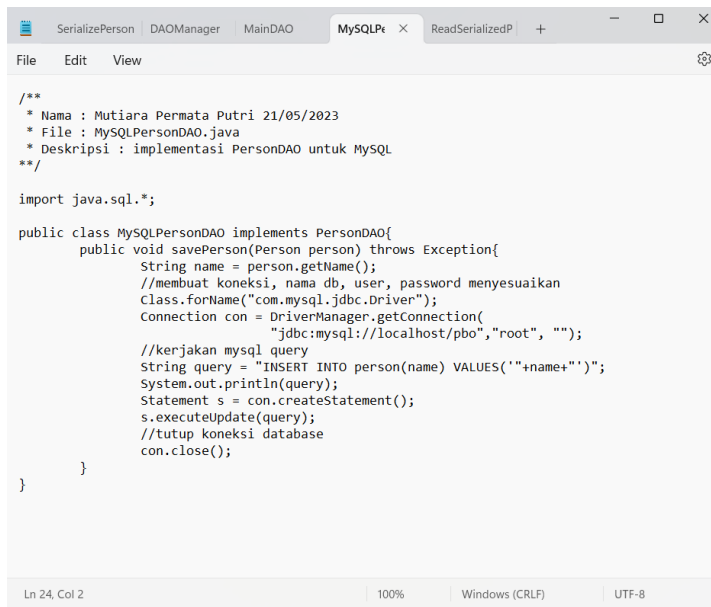
    public Person(int i, String n){
        id = i;
        name = n;
    }

    public int getId(){
        return id;
    }

    public String getName(){
        return name;
    }
}
```

The status bar at the bottom shows 'Ln 27, Col 2', '100%', 'Windows (CRLF)', and 'UTF-8'.

c. MySQLPersonDAO.java

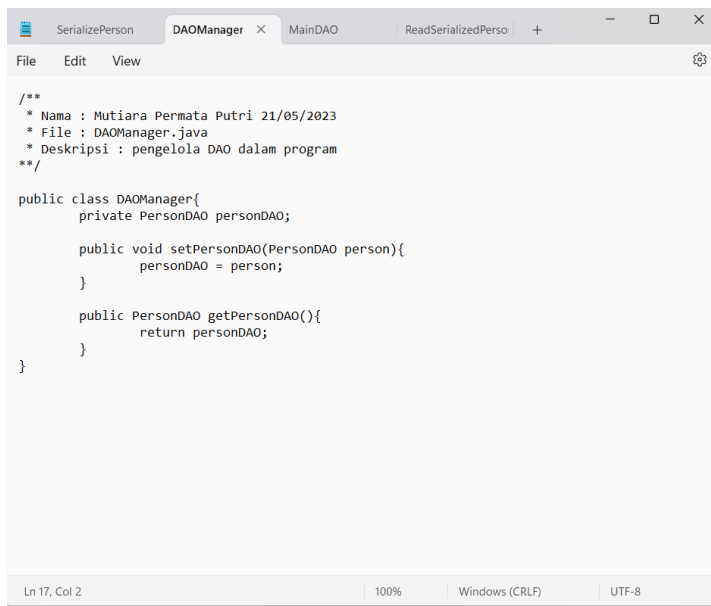


```
/**
 * Nama : Mutiara Permata Putri 21/05/2023
 * File : MySQLPersonDAO.java
 * Deskripsi : implementasi PersonDAO untuk MySQL
 */

import java.sql.*;

public class MySQLPersonDAO implements PersonDAO{
    public void savePerson(Person person) throws Exception{
        String name = person.getName();
        //membuat koneksi, nama db, user, password menyesuaikan
        Class.forName("com.mysql.jdbc.Driver");
        Connection con = DriverManager.getConnection(
            "jdbc:mysql://localhost/pbo","root", "");
        //kerjakan mysql query
        String query = "INSERT INTO person(name) VALUES('"+name+"')";
        System.out.println(query);
        Statement s = con.createStatement();
        s.executeUpdate(query);
        //tutup koneksi database
        con.close();
    }
}
```

d. DAOManager.java



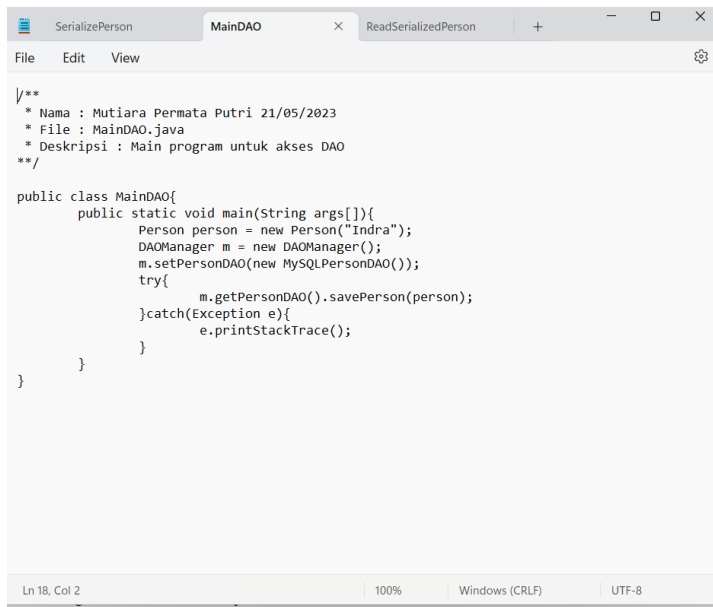
```
/**
 * Nama : Mutiara Permata Putri 21/05/2023
 * File : DAOManager.java
 * Deskripsi : pengelola DAO dalam program
 */

public class DAOManager{
    private PersonDAO personDAO;

    public void setPersonDAO(PersonDAO person){
        personDAO = person;
    }

    public PersonDAO getPersonDAO(){
        return personDAO;
    }
}
```

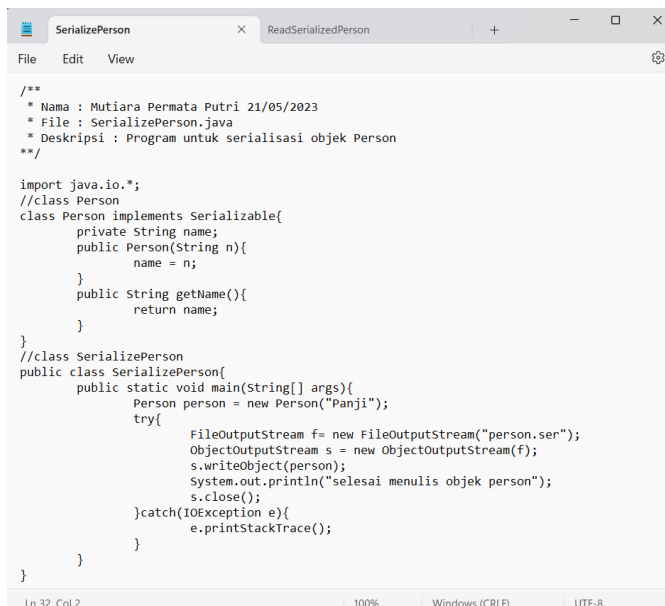
e. MainDAO.java



```
/**
 * Nama : Mutiara Permata Putri 21/05/2023
 * File : MainDAO.java
 * Deskripsi : Main program untuk akses DAO
 */

public class MainDAO{
    public static void main(String args[]){
        Person person = new Person("Indra");
        DAOManager m = new DAOManager();
        m.setPersonDAO(new MySQLPersonDAO());
        try{
            m.getPersonDAO().savePerson(person);
        }catch(Exception e){
            e.printStackTrace();
        }
    }
}
```

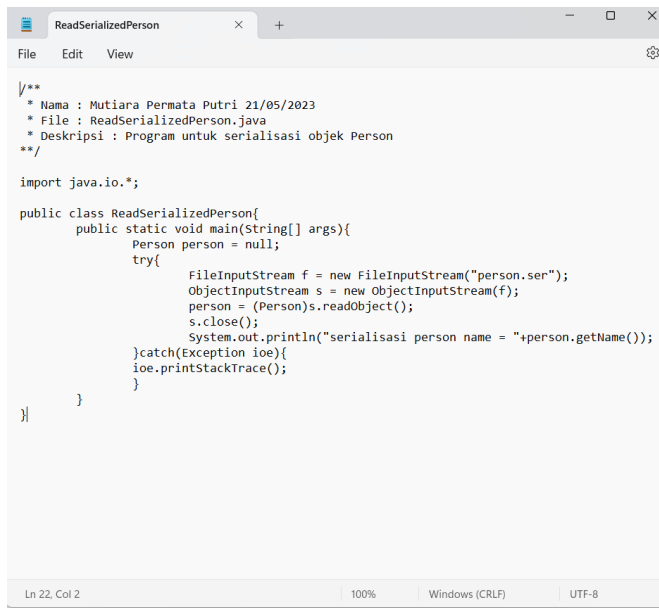
f. SerializePerson.java



```
/**
 * Nama : Mutiara Permata Putri 21/05/2023
 * File : SerializePerson.java
 * Deskripsi : Program untuk serialisasi objek Person
 */

import java.io.*;
//class Person
class Person implements Serializable{
    private String name;
    public Person(String n){
        name = n;
    }
    public String getName(){
        return name;
    }
}
//class SerializePerson
public class SerializePerson{
    public static void main(String[] args){
        Person person = new Person("Panji");
        try{
            FileOutputStream f= new FileOutputStream("person.ser");
            ObjectOutputStream s = new ObjectOutputStream(f);
            s.writeObject(person);
            System.out.println("selesai menulis objek person");
            s.close();
        }catch(IOException e){
            e.printStackTrace();
        }
    }
}
```

g. ReadSerializedPerson.java



The screenshot shows a Java IDE window titled "ReadSerializedPerson". The menu bar includes "File", "Edit", and "View". The code is as follows:

```
/**
 * Nama : Mutiana Permata Putri 21/05/2023
 * File : ReadSerializedPerson.java
 * Deskripsi : Program untuk serialisasi objek Person
 */

import java.io.*;

public class ReadSerializedPerson{
    public static void main(String[] args){
        Person person = null;
        try{
            FileInputStream f = new FileInputStream("person.ser");
            ObjectInputStream s = new ObjectInputStream(f);
            person = (Person)s.readObject();
            s.close();
            System.out.println("serialisasi person name = "+person.getName());
        }catch(Exception ioe){
            ioe.printStackTrace();
        }
    }
}
```

The status bar at the bottom indicates "Ln 22, Col 2", "100%", "Windows (CRLF)", and "UTF-8".

2. Screenshot Command

a. Command Run Code


```
MySQL 8.0 Command Line Cui + v
mysql> CREATE DATABASE pbo;
Query OK, 1 row affected (0.00 sec)

mysql> CREATE TABLE person(id INT PRIMARY KEY AUTO_INCREMENT NOT NULL, name VARCHAR(100));
ERROR 1046 (3D000): No database selected
mysql> USE DATABASE pbo
ERROR 1049 (42000): Unknown database 'database'
mysql> USE pbo
Database changed
mysql> CREATE TABLE person(id INT PRIMARY KEY AUTO_INCREMENT NOT NULL, name VARCHAR(100));
Query OK, 0 rows affected (0.04 sec)

mysql> SHOW DATABASES;
+-----+
| Database |
+-----+
| barang   |
| information_schema |
| inventory |
| mysql    |
| organisasi |
| pbo      |
| performance_schema |
| perpustakaan |
| prak_basdat5_permata |
| responsi |
| sakila   |
| sys      |
| world    |
+-----+
13 rows in set (0.06 sec)

mysql> DESCRIBE person;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id    | int  | NO   | PRI | NULL    | auto_increment |
| name  | varchar(100) | YES |     | NULL    |               |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.02 sec)

mysql>
```

3. Screenshot Hasil

```
C:\Windows\System32\cmd.exe + v
D:\Semester 4\PPBO\Pertemuan 9>java -classpath .\mysql-connector-java-8.0.33.jar; MainDAO
Loading class 'com.mysql.jdbc.Driver'. This is deprecated. The new driver class is 'com.mysql.cj.jdbc.Driver'. The driver is automatically registered via the SPI and manual loading of the driver class is generally unnecessary.
com.mysql.cj.jdbc.exceptions.CommunicationsException: Communications link failure

The last packet sent successfully to the server was 0 milliseconds ago. The driver has not received any packets from the server.
    at com.mysql.cj.jdbc.exceptions.SQLExceptionsMapping.translateException(SQLException.java:175)
    at com.mysql.cj.jdbc.exceptions.SQLExceptionsMapping.translateException(SQLExceptionsMapping.java:64)
    at com.mysql.cj.jdbc.ConnectionImpl.createNewIO(ConnectionImpl.java:825)
    at com.mysql.cj.jdbc.ConnectionImpl.<init>(ConnectionImpl.java:446)
    at com.mysql.cj.jdbc.ConnectionImpl.getInstance(ConnectionImpl.java:239)
    at com.mysql.cj.jdbc.NonRegisteringDriver.connect(NonRegisteringDriver.java:188)
    at java.sql/java.sql.DriverManager.getConnection(DriverManager.java:677)
    at java.sql/java.sql.DriverManager.getConnection(DriverManager.java:228)
    at MySQLPersonDAO.savePerson(MySQLPersonDAO.java:14)
    at MainDAO.main(MainDAO.java:13)
Caused by: com.mysql.cj.exceptions.CJCommunicationsException: Communications link failure

The last packet sent successfully to the server was 0 milliseconds ago. The driver has not received any packets from the server.
    at java.base/jdk.internal.reflect.NativeConstructorAccessorImpl.newInstance0(Native Method)
    at java.base/jdk.internal.reflect.NativeConstructorAccessorImpl.newInstance(NativeConstructorAccessorImpl.java:62)
    at java.base/jdk.internal.reflect.DelegatingConstructorAccessorImpl.newInstance(DelegatingConstructorAccessorImpl.java:45)
    at java.base/java.lang.reflect.Constructor.newInstance(Constructor.java:490)
    at com.mysql.cj.exceptions.ExceptionFactory.createException(ExceptionFactory.java:62)
    at com.mysql.cj.exceptions.ExceptionFactory.createException(ExceptionFactory.java:105)
    at com.mysql.cj.exceptions.ExceptionFactory.createException(ExceptionFactory.java:150)
    at com.mysql.cj.exceptions.ExceptionFactory.createCommunicationsException(ExceptionFactory.java:166)
    at com.mysql.cj.protocol.a.NativeSocketConnection.connect(NativeSocketConnection.java:89)
    at com.mysql.cj.NativeSession.connect(NativeSession.java:121)
    at com.mysql.cj.jdbc.ConnectionImpl.connectOneTryOnly(ConnectionImpl.java:945)
    at com.mysql.cj.jdbc.ConnectionImpl.createNewIO(ConnectionImpl.java:815)
    ... 7 more
Caused by: java.net.ConnectException: Connection refused: connect
    at java.base/java.net.PlainSocketImpl.connect0(Native Method)
    at java.base/java.net.PlainSocketImpl.socketConnect(PlainSocketImpl.java:101)
    at java.base/java.net.AbstractPlainSocketImpl.doConnect(AbstractPlainSocketImpl.java:412)
    at java.base/java.net.AbstractPlainSocketImpl.connectToAddress(AbstractPlainSocketImpl.java:255)
    at java.base/java.net.AbstractPlainSocketImpl.connect(AbstractPlainSocketImpl.java:237)
    at java.base/java.net.SocksSocketImpl.connect(SocksSocketImpl.java:392)
    at com.mysql.cj.protocol.a.NativeSocketConnection.connect(NativeSocketConnection.java:69)
    ... 10 more

D:\Semester 4\PPBO\Pertemuan 9>
```