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Lab: C1

1. PersonDAO.java

```
/**
* File : PersonDAO.java 06/05/2023
* Penulis : Niko Geraldi Sinabariba
* Deskripsi : Interface untuk person access object
*/
public interface PersonDAO{
   public void savePerson(Person p) throws Exception;
}
```

2. Person.java

```
/**
*File : PersonDAO.java 06/06/2023
*Penulis : Niko Geraldi Sinabariba
* 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;
    }
```

3. MySQLPerson.java

```
/**
*File : PersonDAO.java 06/06/2023
*Penulis: Niko Geraldi Sinabariba
* Deskripsi : Implementasi PersonDAO untuk MySQL
* /
import java.sql.*;
public class MySQLPersonDAO implements PersonDAO{
public void savePerson(Person person) throws
Exception {
        String name = person.getName();
        Class.forName("com.mysql.jdbc.Driver");
        Connection con =
DriverManager.getConnection("jdbc:mysql://localhost/pbo
", "root", "");
        String query = "INSERT INTO person(name)
VALUES('"+name+"')";
        System.out.println(query);
        Statement s = con.createStatement();
        s.executeUpdate(query);
con.close();
```

4. DAOManager.java

```
/**
*File : PersonDAO.java 06/06/2023
*Penulis : Niko Geraldi Sinabariba
* Deskripsi : Pengelola DAO dalam program
*/

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

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

5. MainDAO.java

```
*File : PersonDAO.java 06/06/2023
*Penulis : Niko Geraldi Sinabariba
* Deskripsi : Main program untuk akses DAO
* /
public class MainDAO {
   public static void main(String args[]){
person = new Person("Indra");
                                     DAOManager m = new
DAOManager();
       m.setPersonDAO(new MySQLPersonDAO());
                                                      try{
            m.getPersonDAO().savePerson(person);
        }catch(Exception e){
            e.printStackTrace();
        }
    }
```

6. SerializePerson.java

```
public class SerializePerson {
    public static void main(String[] args) {
Person person = new Person("rio");
                                          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();
    }
```

7. ReadSerializedPerson.java

```
*File : PersonDAO.java 06/06/2023
*Penulis : Niko Geraldi Sinabariba
* 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("serialized person name
= " + person.getName());
        } catch (Exception ioe) {
ioe.printStackTrace();
}
```

8. Hasil Output

```
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS D:\PBOPRAK\praktikum9> javac *.java

PS D:\PBOPRAK\praktikum9> java SerializePerson

Selesai menulis objek person

PS D:\PBOPRAK\praktikum9> java ReadSerializedPerson

serialized person name = rio

PS D:\PBOPRAK\praktikum9> |
```