

LAPORAN PRAKTIKUM

PRAKTIKUM 9:

“PERSISTENT OBJECT”



Disusun Oleh :

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PRAKTIKUM PEMROGRAMAN BERBASIS OBJEK

LAB B1

DEPARTEMEN ILMU KOMPUTER / INFORMATIKA

FAKULTAS SAINS DAN MATEMATIKA

UNIVERSITAS DIPONEGORO

SEMARANG

2023

Program Java

1. PersonDAO.java

```
/**
 * File      : PersonDAO.java 04/06/2023
 * Penulis   : Handhika Pranata Kusuma Wardana - 24060121140112
 * Deskripsi  : Interface untuk person access object
 * Lab       : B1
 */

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

2. Person.java

```
/**
 * File      : Person.java 04/06/2023
 * Penulis   : Handhika Pranata Kusuma Wardana - 24060121140112
 * Deskripsi  : Person database model
 * Lab       : B1
 */

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. MySQLPersonDAO.java

```
/**
 * File      : MySQLPersonDAO.java 04/06/2023
 * Penulis   : Handhika Pranata Kusuma Wardana - 24060121140112
 * Deskripsi  : Implementasi PersonDAO untuk MySQL
 * Lab       : B1
 */

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();
    }
}

```

4. DAOManager.java

```

/**
 * File      : DAOManager.java 04/06/2023
 * Penulis   : Handhika Pranata Kusuma Wardana - 24060121140112
 * Deskripsi  : Pengelola DAO dalam program
 * Lab       : B1
 */

public class DAOManager{
    private PersonDAO personDAO;

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

    public PersonDAO getPersonDAO(){
        return personDAO;
    }
}

```

5. MainDAO.java

```

/**
 * File      : MainDAO.java 04/06/2023
 * Penulis   : Handhika Pranata Kusuma Wardana - 24060121140112
 * Deskripsi  : Main program untuk akses DAO
 * Lab       : B1
 */

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();
        }
    }
}

```

Hasil run program Java

```
D:\prak pbo 2023\Praktikum 9>javac MySQLPersonDAO.java
D:\prak pbo 2023\Praktikum 9>javac MainDAO.java
D:\prak pbo 2023\Praktikum 9>java -classpath .\mysql-connector-j-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.
INSERT INTO person(name) VALUES('Indra')
```

Tampilan tabel person pada database pbo pada MySQL CLI

```
mysql> use pbo;
Database changed
mysql> select * from person;
+----+-----+
| id | name |
+----+-----+
|  1 | Indra |
+----+-----+
1 row in set (0.00 sec)
```