

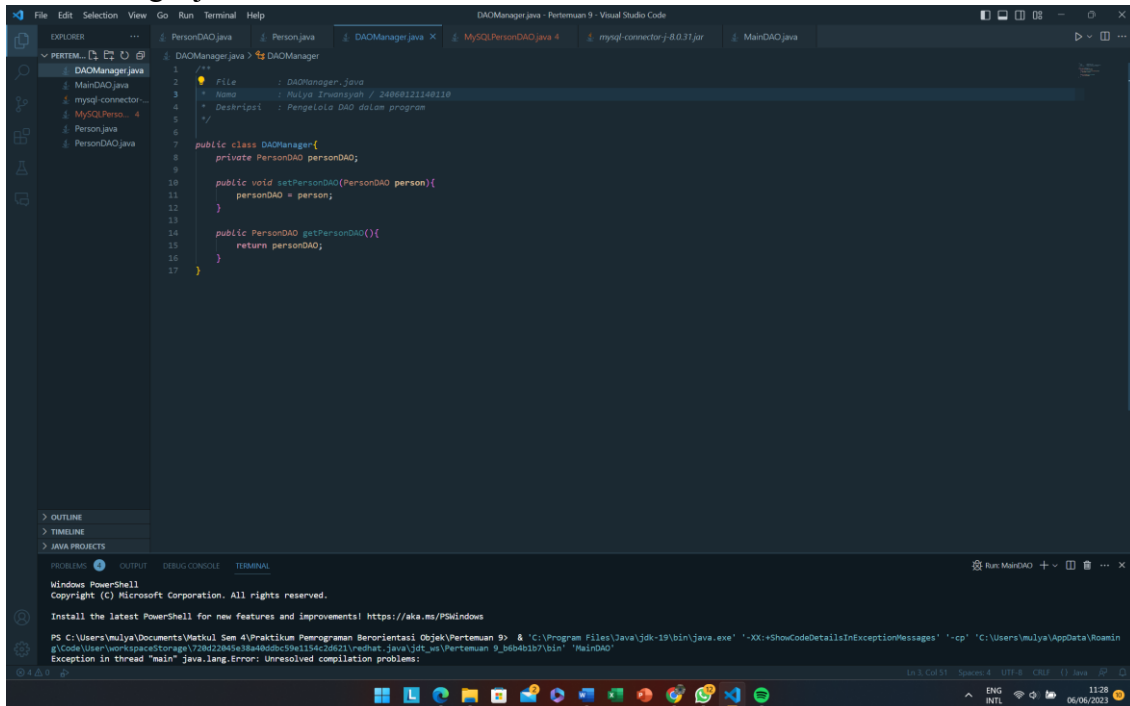
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Lab : C1

## Tugas Praktikum 9

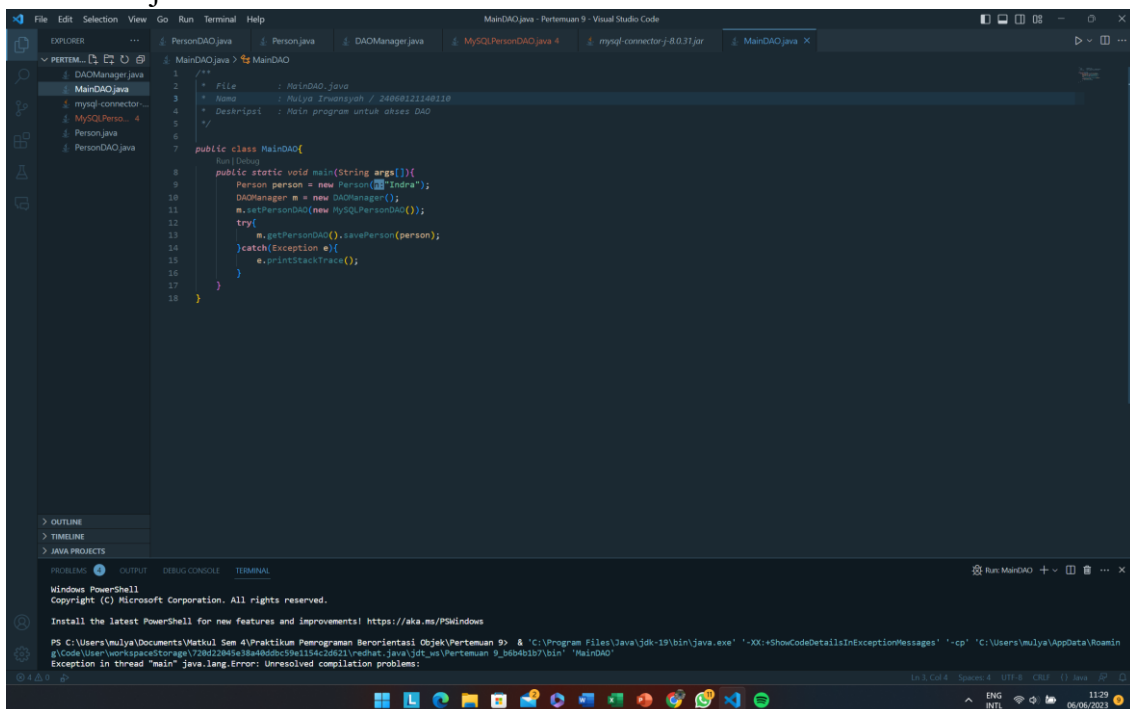
### 1. DAOManager.java



```
1  /**
2   * File      : DAOManager.java
3   * Nama      : Mulya Irwansyah / 24060121140110
4   * Deskripsi  : Pengelola DAO dalam program
5   */
6
7  public class DAOManager{
8      private PersonDAO personDAO;
9
10     public void setPersonDAO(PersonDAO person){
11         personDAO = person;
12     }
13
14     public PersonDAO getPersonDAO(){
15         return personDAO;
16     }
17 }
```

Exception in thread "main" java.lang.Error: Unresolved compilation problems:

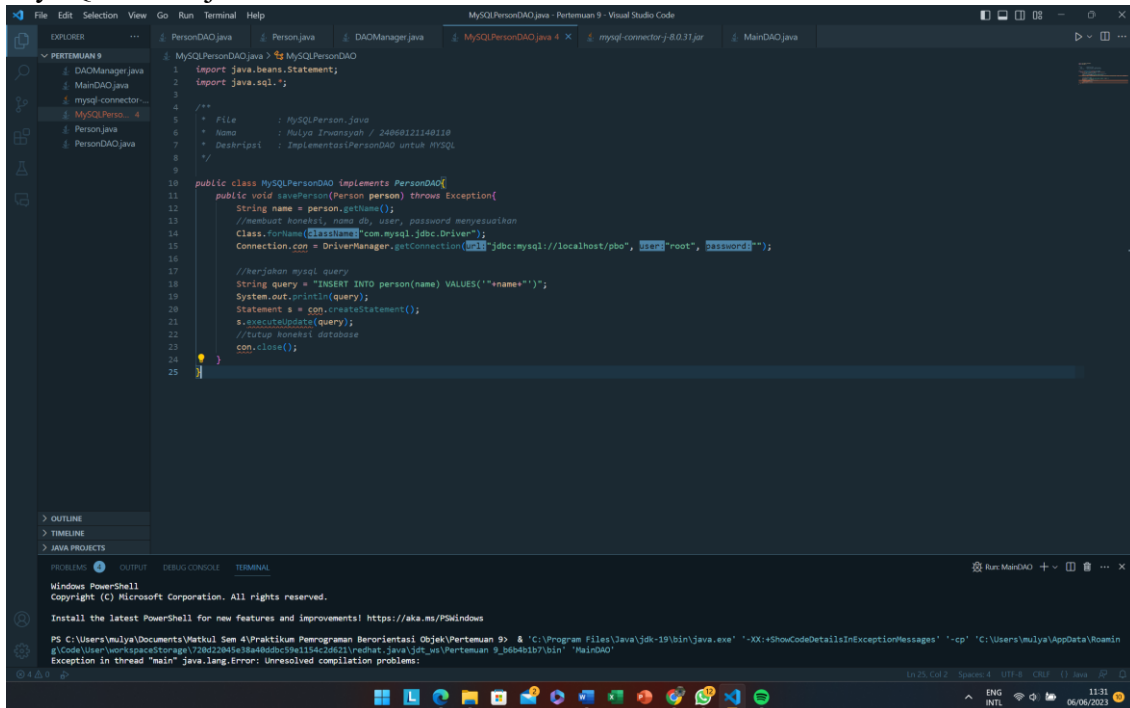
### 2. MainDAO.java



```
1  /**
2   * File      : MainDAO.java
3   * Nama      : Mulya Irwansyah / 24060121140110
4   * Deskripsi  : Main program untuk akses DAO
5   */
6
7  public class MainDAO{
8
9      public static void main(String args[]){
10         Person person = new Person("Indra");
11         DAOManager m = new DAOManager();
12         m.setPersonDAO(new MySQLPersonDAO());
13         try{
14             m.getPersonDAO().savePerson(person);
15         }catch(Exception e){
16             e.printStackTrace();
17         }
18     }
19 }
```

Exception in thread "main" java.lang.Error: Unresolved compilation problems:

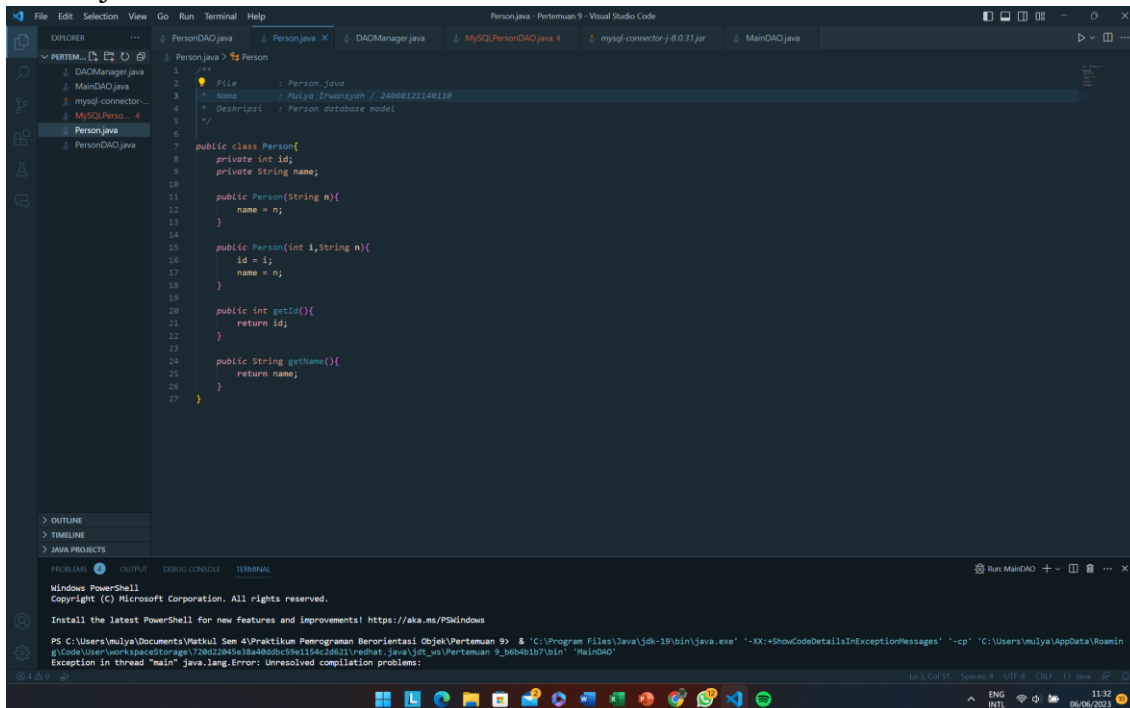
### 3. MySQLPerson.java



The screenshot shows the Visual Studio Code editor with the file `MySQLPersonDAO.java` open. The code implements the `PersonDAO` interface. It includes imports for `java.beans.Statement` and `java.sql.*`. A comment block describes the file as `MySQLPerson.java`, with author `Mulya Irawansyah / 24060121140118` and description `Implementasi PersonDAO untuk MySQL`. The `savePerson` method takes a `Person` object and throws an `Exception`. It constructs a JDBC URL, gets a connection, creates a statement, and executes an `INSERT` query. The terminal window at the bottom shows a Windows PowerShell prompt with a command to run the application, resulting in a `java.lang.Error: Unresolved compilation problems:` exception.

```
1 import java.beans.Statement;
2 import java.sql.*;
3
4 /**
5  * File      : MySQLPerson.java
6  * Nama      : Mulya Irawansyah / 24060121140118
7  * Deskripsi  : Implementasi PersonDAO untuk MySQL
8  */
9
10 public class MySQLPersonDAO implements PersonDAO {
11     public void savePerson(Person person) throws Exception {
12         String name = person.getName();
13         //mendapat koneksi, nama db, user, password menyesuaikan
14         Class.forName("com.mysql.jdbc.Driver");
15         Connection con = DriverManager.getConnection("jdbc:mysql://localhost/pbo", "root", "password");
16
17         //Perjahan mysql query
18         String query = "INSERT INTO person(name) VALUES('"+name+"')";
19         System.out.println(query);
20         Statement s = con.createStatement();
21         s.executeUpdate(query);
22         //Tutup koneksi database
23         con.close();
24     }
25 }
```

### 4. Person.java



The screenshot shows the Visual Studio Code editor with the file `Person.java` open. The code defines the `Person` class with private attributes `id` and `name`. It includes two constructors: one taking only a `String` name, and another taking both an `int` id and a `String` name. It also includes two getter methods: `getId` and `getName`. The terminal window at the bottom shows a Windows PowerShell prompt with a command to run the application, resulting in a `java.lang.Error: Unresolved compilation problems:` exception.

```
1
2
3 /**
4  * File      : Person.java
5  * Nama      : Mulya Irawansyah / 24060121140118
6  * Deskripsi  : Person database model
7  */
8
9 public class Person {
10     private int id;
11     private String name;
12
13     public Person(String n){
14         name = n;
15     }
16
17     public Person(int i,String n){
18         id = i;
19         name = n;
20     }
21
22     public int getId(){
23         return id;
24     }
25
26     public String getName(){
27         return name;
28     }
29 }
```

## 5. PersonDAO.java

