

Nama: Siti Rohmah

NPM: 222310054

Kelas: TI-22-PB

```
C:\Windows\System32\cmd.e X + v

C:\>mvn -B archetype:generate -DgroupId=com.ibik.pbo.Pembelajaran -DartifactId=PBO-222310054-Pembelajaran-10 -DarchetypeArtifactId=maven-archetype-quickstart -DarchetypeVersion=1.4
[INFO] Scanning for projects...
[INFO] -----< org.apache.maven:standalone-pom >-----
[INFO] Building Maven Stub Project (No POM) 1
[INFO] -----[ pom ]-----
[INFO] >>> archetype:3.2.1:generate (default-cli) > generate-sources @ standalone-pom >>>
[INFO] <<< archetype:3.2.1:generate (default-cli) < generate-sources @ standalone-pom <<<
[INFO] --- archetype:3.2.1:generate (default-cli) @ standalone-pom ---
[INFO] Generating project in Batch mode
[INFO] -----
[INFO] Using following parameters for creating project from Archetype: maven-archetype-quickstart:1.4
[INFO] -----
[INFO] Parameter: groupId, Value: com.ibik.pbo.Pembelajaran
[INFO] Parameter: artifactId, Value: PBO-222310054-Pembelajaran-10
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] Parameter: package, Value: com.ibik.pbo.Pembelajaran
[INFO] Parameter: packageInPathFormat, Value: com/ibik/pbo/Pembelajaran
[INFO] Parameter: package, Value: com.ibik.pbo.Pembelajaran
[INFO] Parameter: groupId, Value: com.ibik.pbo.Pembelajaran
[INFO] Parameter: artifactId, Value: PBO-222310054-Pembelajaran-10
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] Project created from Archetype in dir: C:\PBO-222310054-Pembelajaran-10
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 29.421 s
[INFO] Finished at: 2023-12-17T17:02:51+07:00
[INFO] -----
```

eclipse-workspace - PBO-222310054-Pembelajaran-10/src/main/java/com/ibik/pbo/Pembelajaran/Latihan01.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer

- PBO-222310031-MAVEN
- PBO-222310054-MAVEN
- PBO-222310054-Pembelajaran-10
  - src/main/java
    - com.ibik.pbo.Pembelajaran
      - App.java
      - ConnectionDB.java
      - Latihan01.java
      - StudentDao.java
      - Students.java
    - src/test/java
    - JRE System Library [JavaSE-1.7]
    - Maven Dependencies
    - bin
    - src
    - target
    - pom.xml
  - PBO-222310054-pembelajaran-7
  - PBO-222310054-Pembelajaran-8
  - PBO-222310054-Pembelajaran-9
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        - StudentsScore.java
        - StudentsScoreDao.java

1 package com.ibik.pbo.Pembelajaran;

2

3 import java.awt.EventQueue;

24

25 public class Latihan01 extends JFrame {

26

27 private JPanel contentPane;

28 private.JTable table;

29 private JTextField textNpm;

30 private JTextField textFirstname;

31 private JTextField textMiddlename;

32 private JTextField textLastname;

33

34 public static void main(String[] args) {

35 EventQueue.invokeLater(new Runnable() {

36 public void run() {

37 try {

38 Latihan01 frame = new Latihan01();

39 frame.setVisible(true);

40 } catch (Exception e) {

41 e.printStackTrace();

42 }

43 };

44 }

45

46 public Latihan01() {

47 setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

48 setBounds(100, 100, 450, 406);

49

Source Design

Writable Smart Insert 208 : 57 : 7739

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        - StudentsScoreDao.java

47 public Latihan01() {

48 setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

49 setBounds(100, 100, 450, 406);

50 contentPane = new JPanel();

51 contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));

52 setContentPane(contentPane);

53 contentPane.setLayout(null);

54

55 // Create the JTable with three columns (npm, name, and action)

56 String[] columnNames = {"NPM", "Name", "Action"};

57 DefaultTableModel model = new DefaultTableModel(columnNames, 0) {

58 @Override

59 public Class<?> getColumnClass(int column) {

60 if (column == 2) {

61 return JButton.class;

62 }

63 return Object.class;

64 }

65 };

66 table = new JTable(model);

67

68 // Set the cell renderer and editor for the "Action" column

69 table.getColumnModel().getColumn(2).setCellRenderer(new ButtonRenderer());

70 table.getColumnModel().getColumn(2).setCellEditor(new ButtonEditor(new JButton("Edit"), new

71

72 // Create a JScrollPane and add the table to it

73 JScrollPane scrollPane = new JScrollPane(table);

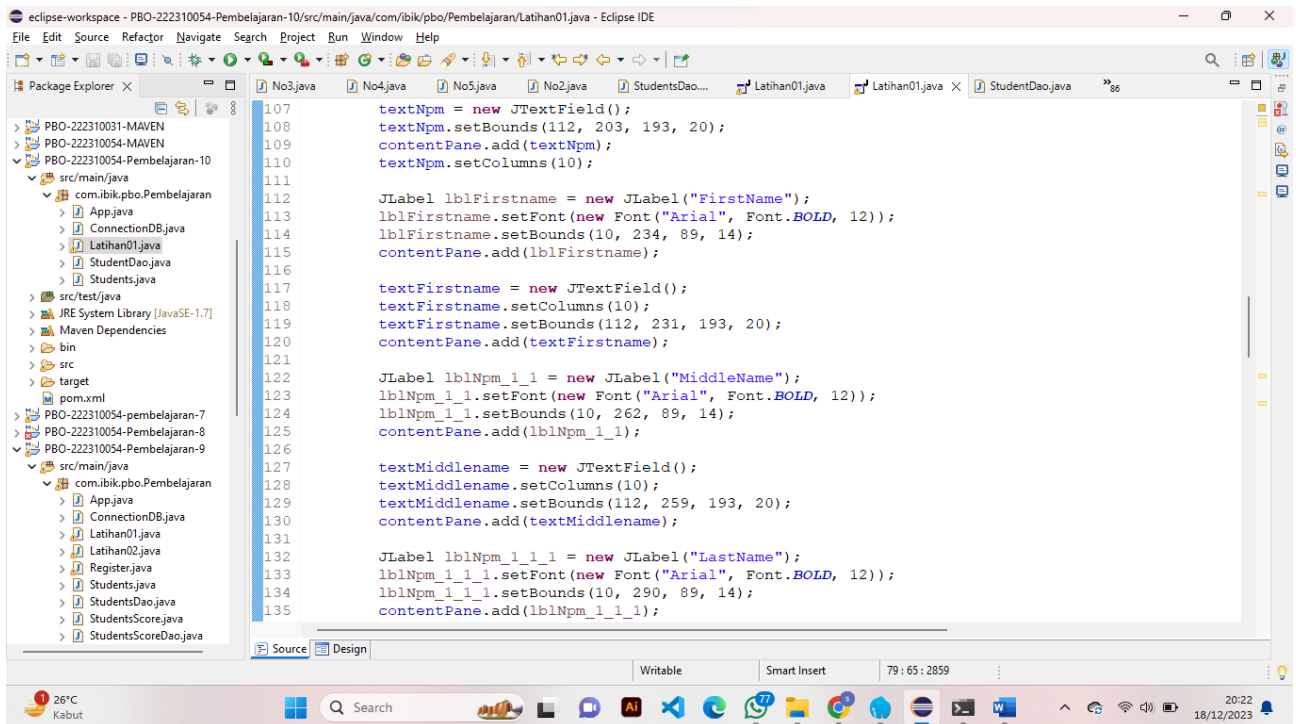
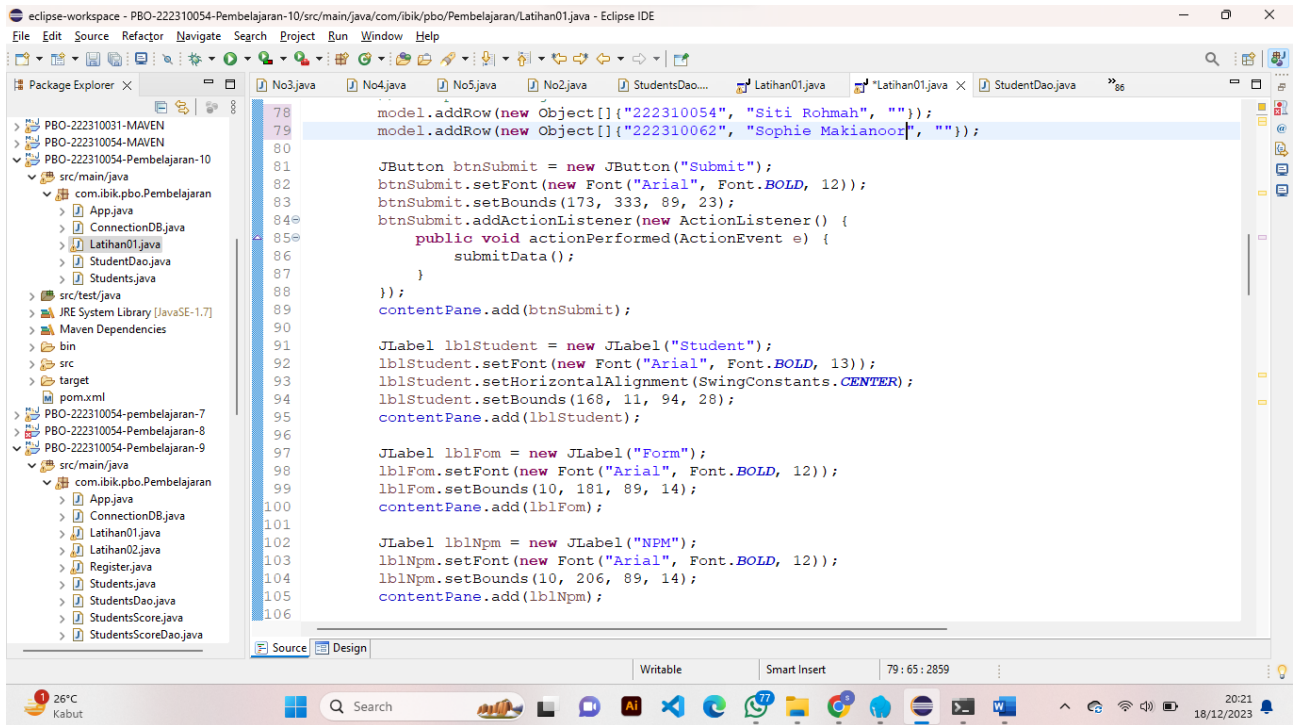
74 scrollPane.setBounds(10, 39, 414, 131);

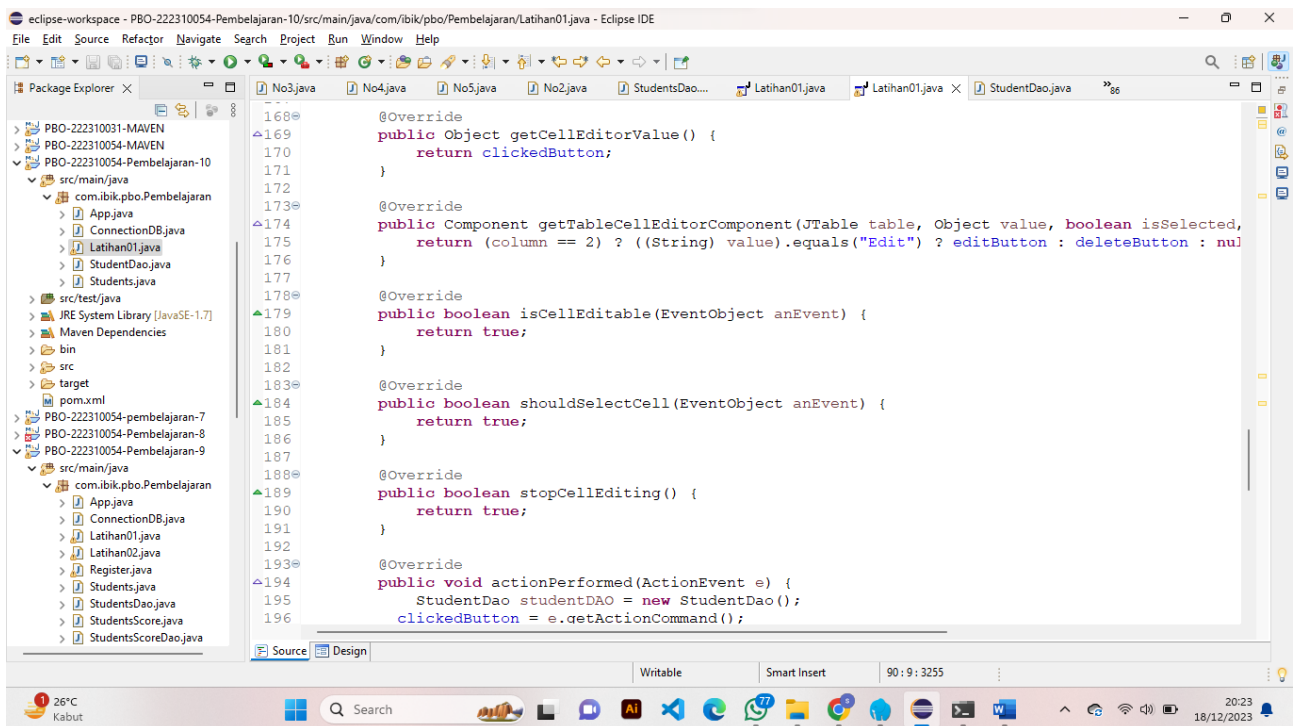
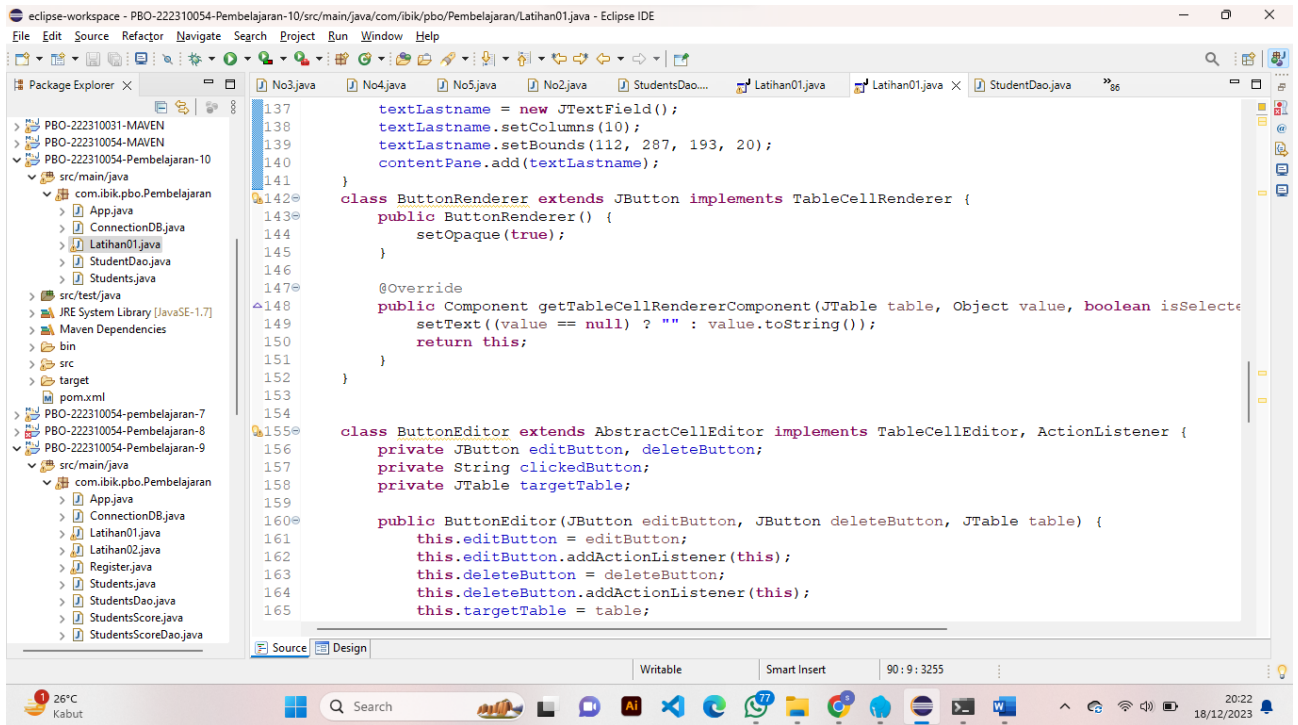
75 contentPane.add(scrollPane);

Source Design

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@Override
public void actionPerformed(ActionEvent e) {
    StudentDao studentDAO = new StudentDao();
    clickedButton = e.getActionCommand();
    if ("Delete".equals(clickedButton)) {
        int selectedRow = targetTable.getSelectedRow();
        if (selectedRow != -1) {
            int id = (int) targetTable.getValueAt(selectedRow, 0);
            try {
                studentDAO.removed(id);
            } catch (Exception ex) {
                JOptionPane.showMessageDialog(null, "Error: " + ex.getMessage(), "Error", JOptionPane.ERROR_MESSAGE);
            }
            DefaultTableModel model = (DefaultTableModel) targetTable.getModel();
            model.removeRow(selectedRow);
        }
        fireEditingStopped();
    }
}

private void submitData() {
    StudentDao studentDAO = new StudentDao();
    try {
        Students students = new Students();
        students.setNpm(textNpm.getText());
        students.setMiddlename(textMiddlename.getText());
        students.setLastname(textLastname.getText());
        studentDAO.saved(students);

        DefaultTableModel model = (DefaultTableModel) table.getModel();
        model.addRow(new Object[] {students.getNpm(), generateFullName(), ""});

        textNpm.setText("");
        textFirstname.setText("");
        textMiddlename.setText("");
        textLastname.setText("");
    } catch (Exception e) {
        JOptionPane.showMessageDialog(this, "Error: " + e.getMessage(), "Error", JOptionPane.ERROR_MESSAGE);
    }
}

private String generateFullName() {
    String firstName = textFirstname.getText();
    String middleName = textMiddlename.getText();
    String lastName = textLastname.getText();
    return String.format("%s %s %s", firstName, middleName, lastName).trim();
}
```

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private void submitData() {
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    }
}

private String generateFullName() {
    String firstName = textFirstname.getText();
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    return String.format("%s %s %s", firstName, middleName, lastName).trim();
}
```

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```
C:\PBO-222310054-Pembelajaran-10>mvn exec:java -Dexec.mainClass="com.ibik.pbo.Pembelajaran.Latihan01
[INFO] Scanning for projects...
[INFO] -----< com.ibik.pbo.Pembelajaran:PBO-222310054-Pembelajaran-10 >-----
[INFO] Building PBO-222310054-Pembelajaran-10 1.0-SNAPSHOT
[INFO] from pom.xml
[INFO] -----[ jar ]-----
[WARNING] The artifact mysql:mysql-connector-java:jar:8.0.31 has been relocated to com.mysql:mysql-connector-j:jar:8.0.3
1: MySQL Connector/J artifacts moved to reverse-DNS compliant Maven 2+ coordinates.
[INFO] --- exec:3.1.0:java (default-cli) @ PBO-222310054-Pembelajaran-10 ---
```

— □ ×

Student

NPM	Name	Action
-----	------	--------

Form

NPM

222310054

FirstName

Siti

MiddleName

Rohmah

LastName

Zahra

Submit

— □ ×

Student

NPM	Name	Action
222310054	Siti Rohmah Zahra	Delete
222310062	Sophie Makianoor C	

Form

NPM

222310071

FirstName

Naila










MiddleName

Martiza

LastName

J

Submit

← T →				id	npm	firstname	middlename	lastname
<input type="checkbox"/>	 Edit	 Copy	 Delete	8	222310054	Siti	Rohmah	Zahra
<input type="checkbox"/>	 Edit	 Copy	 Delete	9	222310062	Sophie	Makianoor	C
<input type="checkbox"/>	 Edit	 Copy	 Delete	10	222310071	Naila	Martiza	J