

Nama : Afridho Ikhsan

Kelas : 3A-Informatika

NPM : 2210631170002

Mata Kuliah : Pemrograman Berorientasi Objek (PBO)

1. Buatlah Program seperti berikut ini :

The screenshot shows a Java Swing application window with a light blue title bar and standard Windows-style window controls (minimize, maximize, close). The main content area is light gray and contains a form for entering student data. The form is organized into two columns. The left column has labels 'NIM', 'Nama', 'Alamat', and 'Mata Kuliah' next to their respective text input fields. The right column has labels 'Nilai 1 [10%]', 'Nilai 2 [15%]', 'Nilai 3 - UTS[25%]', 'Nilai 4 [15%]', 'Nilai 5 [35%]', and 'Nilai Akhir' next to their respective text input fields. Below the input fields are two buttons: 'Simpan' (Save) and 'Hapus' (Delete). At the bottom of the window is a table with five columns: 'NIM', 'Nama', 'Alamat', 'Mata Kuliah', and 'Nilai Akhir'. The table is currently empty, showing only the header row.

No.	Class DataMahasiswa
1.	package TugasPertemuan12;
2.	
3.	
4.	import javax.swing.JOptionPane;
5.	import javax.swing.table.DefaultTableModel;
6.	

7.	
8.	
9.	public class DataMahasiswa extends javax.swing.JFrame {
10.	// Deklarasi Variabel Component
11.	private javax.swing.JButton deletebtn;
12.	
13.	private javax.swing.JScrollPane jScrollPane1;
14.	
15.	private javax.swing.JTextField kolomAlamat;
16.	private javax.swing.JTextField kolomNama;
17.	private javax.swing.JTextField kolomNim;
18.	
19.	private javax.swing.JLabel labelAlamat;
20.	
21.	private javax.swing.JTextField labelMataKuliah;
22.	private javax.swing.JLabel labelNama;
23.	
24.	private javax.swing.JTextField labelNilai1;
25.	private javax.swing.JTextField labelNilai2;
26.	
27.	private javax.swing.JTextField labelNilai3;
28.	private javax.swing.JTextField labelNilai4;
29.	
30.	private javax.swing.JTextField labelNilai5;
31.	private javax.swing.JTextField labelNilaiAkhir;
32.	
33.	private javax.swing.JLabel labelNim;
34.	private javax.swing.JButton savebtn;
35.	
36.	private javax.swing.JTable table;
37.	
38.	
39.	private javax.swing.table.DefaultTableModel model;
40.	
41.	
42.	public DataMahasiswa() {
43.	initComponents();
44.	
45.	}
46.	
47.	
48.	private void deletebtnActionPerformed(java.awt.event.ActionEvent evt) {
49.	
50.	// TODO add your handling code here:
51.	
52.	

53.	int confirm = JOptionPane.showConfirmDialog(this, "Apakah anda yakin
54.	ingin menghapus data ini?", "Delete Confirmation",
55.	JOptionPane.YES_NO_OPTION);
56.	
57.	
58.	if (confirm == JOptionPane.NO_OPTION) {
59.	return;
60.	
61.	}
62.	
63.	
64.	model = (DefaultTableModel) table.getModel();
65.	
66.	
67.	int selectedIndex = table.getSelectedRow();
68.	
69.	model.removeRow(selectedIndex);
70.	
71.	
72.	JOptionPane.showMessageDialog(this, "Data mahasiswa berhasil dihapus.");
73.	
74.	
75.	this.clearInput();
76.	labelNilaiAkhir.setText("");
77.	
78.	}
79.	
80.	
81.	private void savebtnActionPerformed(java.awt.event.ActionEvent evt) {
82.	
83.	// TODO add your handling code here:
84.	int confirm = JOptionPane.showConfirmDialog(this, "Apakah data yang
85.	ingin anda tambahkan sudah benar?", "Confirm",
86.	JOptionPane.YES_NO_OPTION);
87.	
88.	
89.	if (confirm == JOptionPane.NO_OPTION) {
90.	
91.	return;
92.	}
93.	
94.	
95.	model = (DefaultTableModel) table.getModel();
96.	
97.	double nilaiAkhir = Double.parseDouble(labelNilai1.getText()) * 0.1 +
98.	Double.parseDouble(labelNilai2.getText()) * 0.15 +

99.	Double.parseDouble(labelNilai3.getText()) * 0.25 +
100.	Double.parseDouble(labelNilai4.getText()) * 0.15 +
101.	Double.parseDouble(labelNilai5.getText()) * 0.35;
102.	
103.	
104.	model.addRow(new Object[]{
105.	kolomNim.getText(),
106.	kolomNama.getText(),
107.	kolomAlamat.getText(),
108.	labelMataKuliah.getText(),
109.	nilaiAkhir,});
110.	
111.	
112.	
113.	
114.	
115.	JOptionPane.showMessageDialog(this, "Data mahasiswa berhasil
116.	ditambahkan.");
117.	
118.	
119.	this.clearInput();
120.	labelNilaiAkhir.setText(Double.toString(nilaiAkhir));
121.	
122.	}
123.	
124.	
125.	private void clearInput() {
126.	kolomNim.setText("");
127.	kolomNama.setText("");
128.	kolomAlamat.setText("");
129.	labelMataKuliah.setText("");
130.	labelNilai1.setText("");
131.	labelNilai2.setText("");
132.	labelNilai3.setText("");
133.	labelNilai4.setText("");
134.	labelNilai5.setText("");
135.	
136.	}
137.	
138.	
139.	public static void main(String args[]) {
140.	
141.	
142.	
143.	
144.	

145.	java.awt.EventQueue.invokeLater(new Runnable() {
146.	public void run() {
147.	
148.	new DataMahasiswa().setVisible(true);
149.	
150.	}
151.	});
152.	
153.	}

Output Program:

NIM

Nama

Alamat

Mata Kuliah

Simpan

Hapus

Nilai 1 [10%]

Nilai 2 [15%]

Nilai 3 – UTS [25%]

Nilai 4 [15%]

Nilai 5 [35%]

Nilai Akhir

NIM	Nama	Alamat	Mata Kuliah	Nilai Akhir
-----	------	--------	-------------	-------------

NIM

2210631170002

Nama

Afridho Ikhsan

Alamat

Jalan Pangrango V

Mata Kuliah

aman Berorientasi Objek

Nilai 1 [10%]

98

Nilai 2 [15%]

95

Nilai 3 - UTS [25%]

90

Nilai 4 [15%]

94

Nilai 5 [35%]

89

Nilai Akhir

94

Simpan

Hapus

NIM	Nama	Alamat	Mata Kuliah	Nilai Akhir
-----	------	--------	-------------	-------------

NIM

2210631170002

Nama

Afridho Ikhsan

Alamat

Jalan Pangrango V

Mata Kuliah

aman Berorientasi Objek

Nilai 1 [10%]

98

Nilai 2 [15%]

95

Nilai 3 - UTS [25%]

90

Nilai 4 [15%]

94

Nilai 5 [35%]

89

Nilai Akhir

94

Simpan

Hapus

NIM	Nama	Alamat	Mata Kuliah	Nilai Akhir
-----	------	--------	-------------	-------------

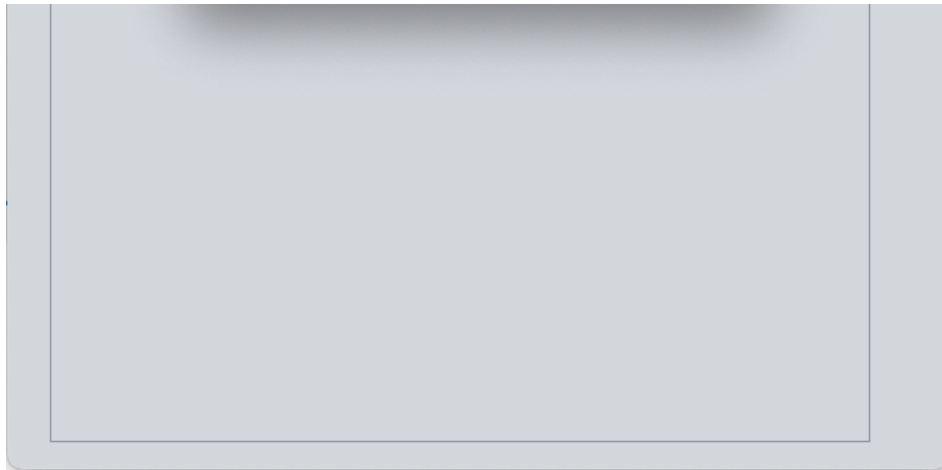
Confirm

?

Apakah data yang ingin anda tambahkan sudah benar?

No

Yes




Formulir input data mahasiswa:

NIM	<input type="text" value="2210631170002"/>	Nilai 1 [10%]	<input type="text" value="98"/>
Nama	<input type="text" value="Afridho Ikhsan"/>	Nilai 2 [15%]	<input type="text" value="95"/>
Alamat	<input type="text" value="Jalan Pangrango V"/>	Nilai 3 - UTS [25%]	<input type="text" value="90"/>
Mata Kuliah	<input type="text" value="aman Berorientasi Objek"/>	Nilai 4 [15%]	<input type="text" value="94"/>
		Nilai 5 [35%]	<input type="text" value="89"/>
		Nilai Akhir	<input type="text" value="94"/>

Simpan Hapus

NIM	Nama	Nilai Akhir
2210631170002	Afri	91.8

Message

 Data mahasiswa berhasil ditambahkan.

OK

NIM

Nama

Alamat

Mata Kuliah

Nilai 1 [10%]

Nilai 2 [15%]

Nilai 3 - UTS [25%]

Nilai 4 [15%]

Nilai 5 [35%]

Nilai Akhir

91.8

Simpan

Hapus

NIM	Nama	Alamat	Mata Kuliah	Nilai Akhir
2210631170002	Afridho Ikhsan	Jalan Pangrango V	Pemrograman B...	91.8

NIM

Nama

Alamat

Mata Kuliah

Nilai 1 [10%]

Nilai 2 [15%]

Nilai 3 - UTS [25%]

Nilai 4 [15%]

Nilai 5 [35%]

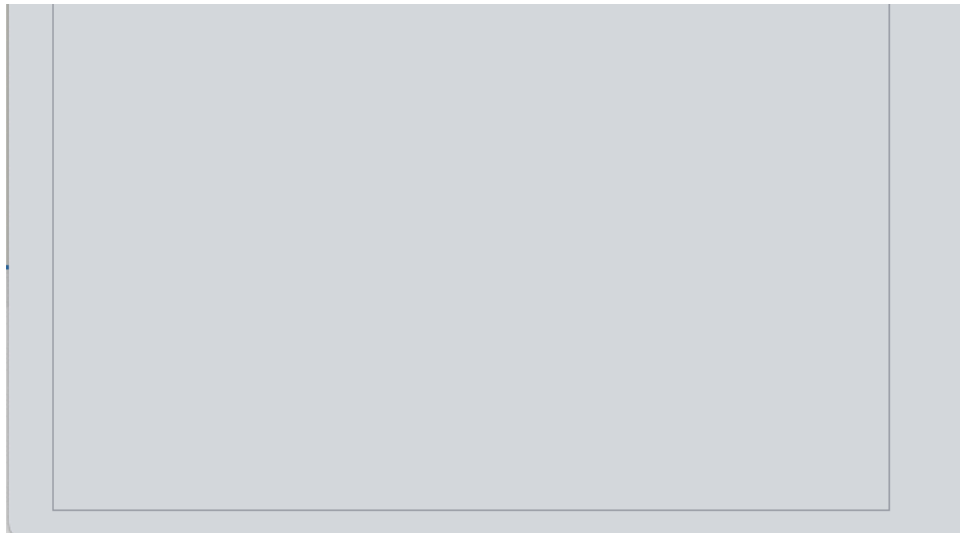
Nilai Akhir

91.8

Simpan

Hapus

NIM	Nama	Alamat	Mata Kuliah	Nilai Akhir
2210631170002	Afridho Ikhsan	Jalan Pangrango V	Pemrograman B...	91.8



Formulir Input Data:

NIM	<input type="text"/>	Nilai 1 [10%]	<input type="text"/>
Nama	<input type="text"/>	Nilai 2 [15%]	<input type="text"/>
Alamat	<input type="text"/>	Nilai 3 - UTS [25%]	<input type="text"/>
Mata Kuliah	<input type="text"/>	Nilai 4 [15%]	<input type="text"/>
		Nilai 5 [35%]	<input type="text"/>
	<input type="button" value="Simpan"/>	<input type="button" value="Hapus"/>	Nilai Akhir <input type="text" value="91.8"/>


Daftar Data:

NIM	Nilai Akhir
2210631170002	91.8

Dialog Delete Confirmation:

Apakah anda yakin ingin menghapus data ini?

NIM Nilai 1 [10%]
 Nama Nilai 2 [15%]
 Alamat Nilai 3 - UTS [25%]
 Mata Kuliah Nilai 4 [15%]
 Nilai 5 [35%]
 Nilai Akhir

NIM	Nama	Alamat	Mata Kuliah	Nilai Akhir
<div> <div>Message</div> <div>  Data mahasiswa berhasil dihapus. </div> <div>OK</div> </div>				

NIM Nilai 1 [10%]
 Nama Nilai 2 [15%]
 Alamat Nilai 3 - UTS[25%]
 Mata Kuliah Nilai 4 [15%]
 Nilai 5 [35%]
 Nilai Akhir

NIM	Nama	Alamat	Mata Kuliah	Nilai Akhir

