

LAPORAN PRAKTIKUM
PEMROGRAMAN BERORIENTASI OBJEK

(Dosen Pengampu: *Dede Husen, M.Kom*)



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TEKNIK INFORMATIKA
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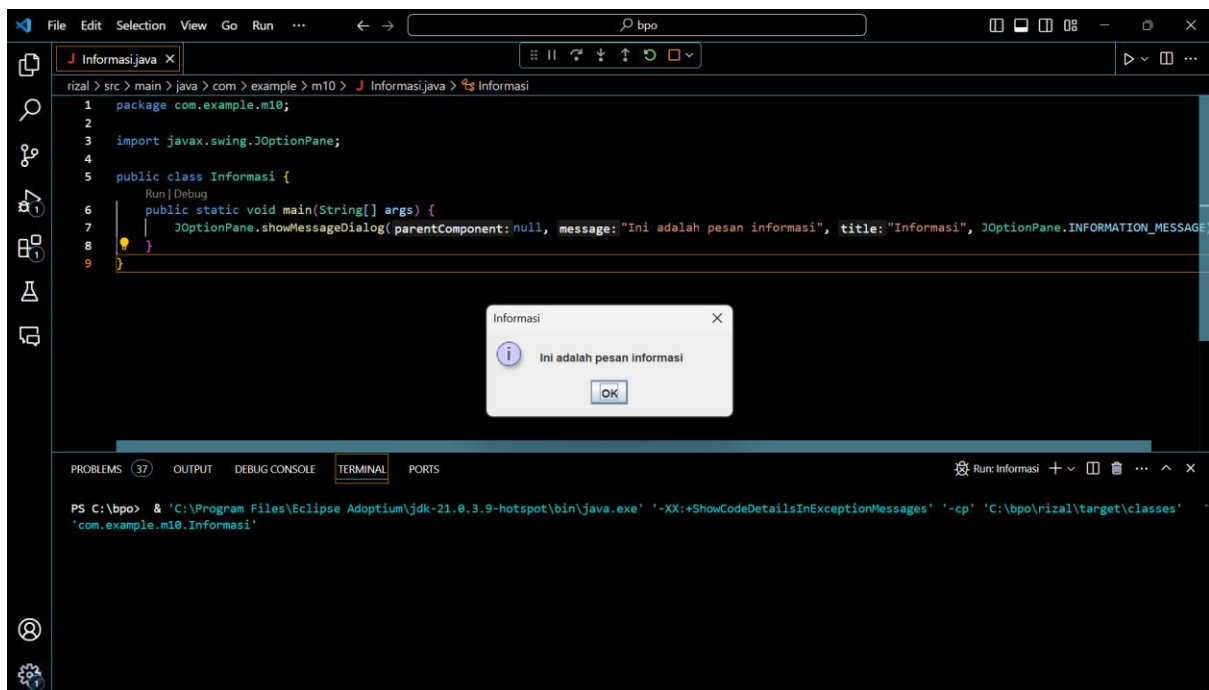
PRETEST

1. Berikan contoh penggunaan JOptionPane.

```
package com.example.m10;

import javax.swing.JOptionPane;

public class Informasi {
    public static void main(String[] args) {
        JOptionPane.showMessageDialog(null, "Ini adalah pesan informasi",
        "Informasi", JOptionPane.INFORMATION_MESSAGE);
    }
}
```

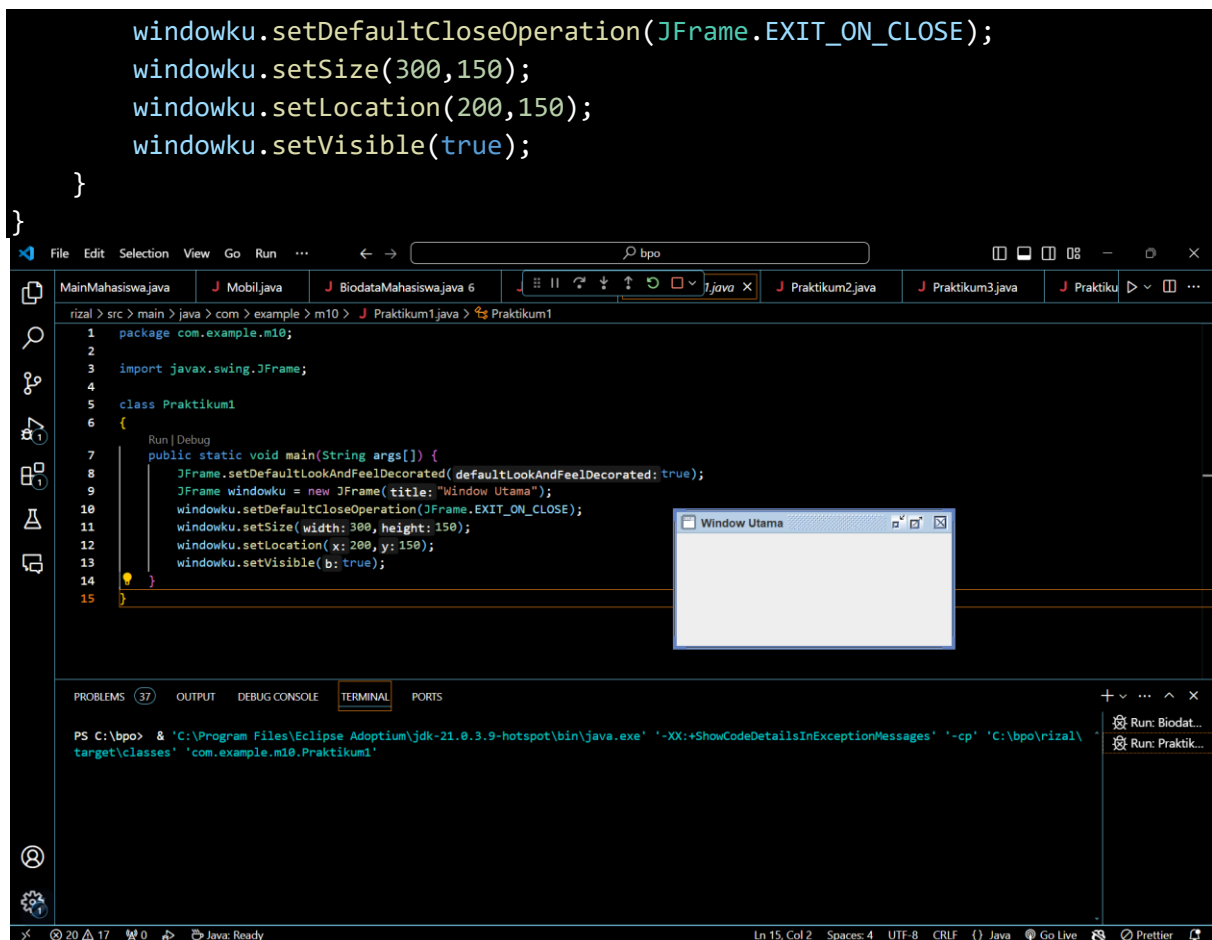


PRAKTIKUM 1

```
package com.example.m10;

import javax.swing.JFrame;

class Praktikum1
{
    public static void main(String args[]) {
        JFrame.setDefaultLookAndFeelDecorated(true);
        JFrame windowku = new JFrame("Window Utama");
    }
}
```



PRAKTIKUM 2

```

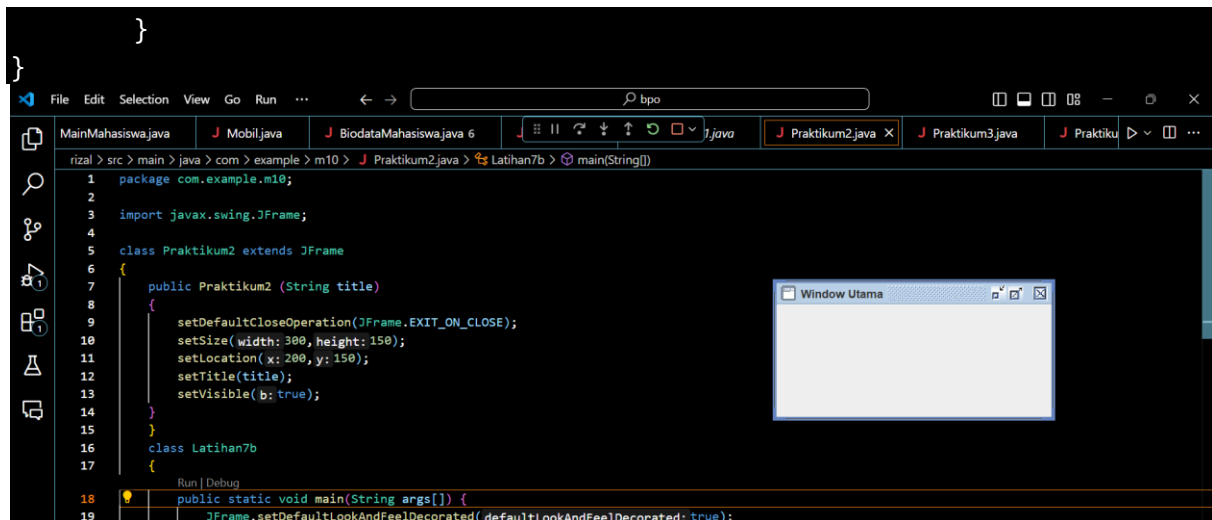
package com.example.m10;

import javax.swing.JFrame;

class Praktikum2 extends JFrame
{
    public Praktikum2 (String title)
    {
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        setSize(300,150);
        setLocation(200,150);
        setTitle(title);
        setVisible(true);
    }
}

class Latihan7b
{
    public static void main(String args[]) {
        JFrame.setDefaultLookAndFeelDecorated(true);
        new Praktikum2("Window Utama");
    }
}

```



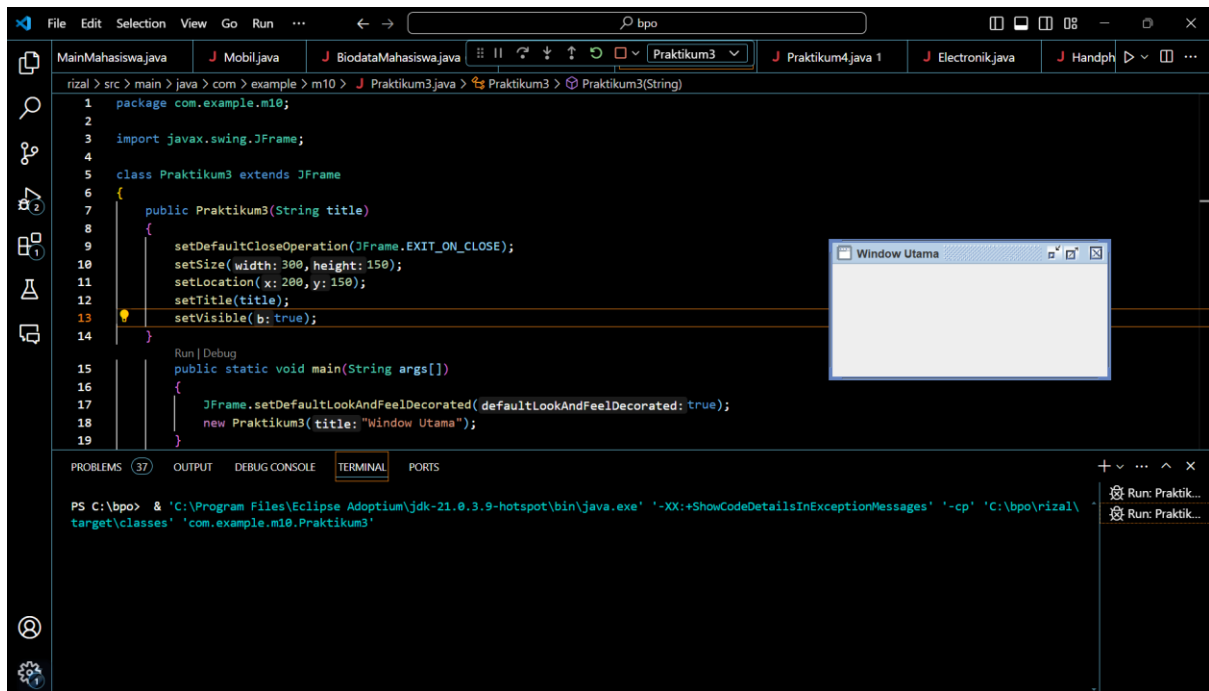
PRAKTIKUM 3

```
package com.example.m10;

import javax.swing.JFrame;

class Praktikum3 extends JFrame
{
    public Praktikum3(String title)
    {
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        setSize(300,150);
        setLocation(200,150);
        setTitle(title);
        setVisible(true);
    }

    public static void main(String args[])
    {
        JFrame.setDefaultLookAndFeelDecorated(true);
        new Praktikum3("Window Utama");
    }
}
```



PRAKTIKUM 4

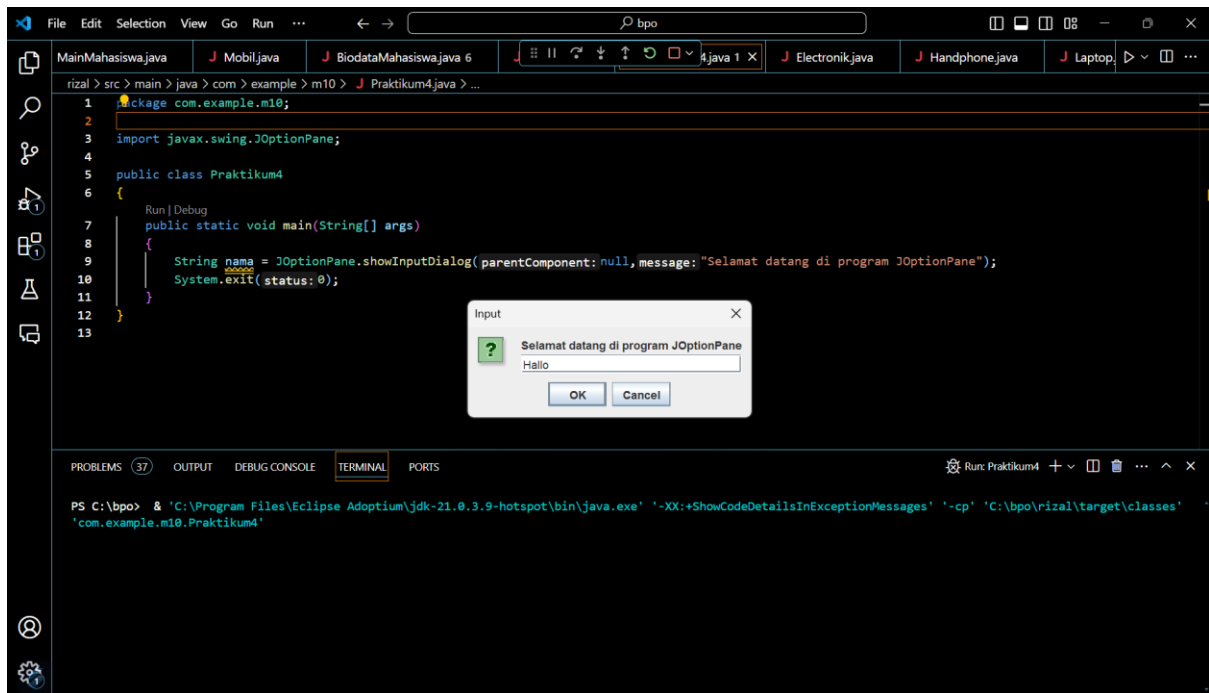
```

package com.example.m10;

import javax.swing.JOptionPane;

public class Praktikum4
{
    public static void main(String[] args)
    {
        String nama = JOptionPane.showInputDialog(null, "Selamat datang di program JOptionPane");
        System.exit(0);
    }
}

```



POSTTEST

1. Buatlah program GUI dengan mengimplementasikan komponen JFrameForm, JLabel, JTextField, dan JButton.

```

package com.example.m10;

import java.awt.GridLayout;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import javax.swing.JButton;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JTextField;

public class Mobil extends JFrame {
    private JLabel merekLabel;
    private JLabel modelLabel;
    private JLabel typeLabel;
    private JLabel kecepatanLabel;
    private JTextField merekText;
    private JTextField modelText;
    private JTextField typeText;
    private JTextField kecepatanText;
    private JButton tombolSubmit;
    private JLabel hasilLabel;

    public Mobil() {

```

```

setTitle("Informasi Mobil");
setSize(300, 200);
setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
setLayout(new GridLayout(5, 2));

merekLabel = new JLabel(" Merek :");
modellabel = new JLabel(" Model :");
typeLabel = new JLabel(" Type :");
kecepatanLabel = new JLabel(" Kecepatan(CC) :");
merekText = new JTextField();
modelText = new JTextField();
typeText = new JTextField();
kecepatanText = new JTextField();
tombolSubmit = new JButton("Submit");
hasilLabel = new JLabel("");

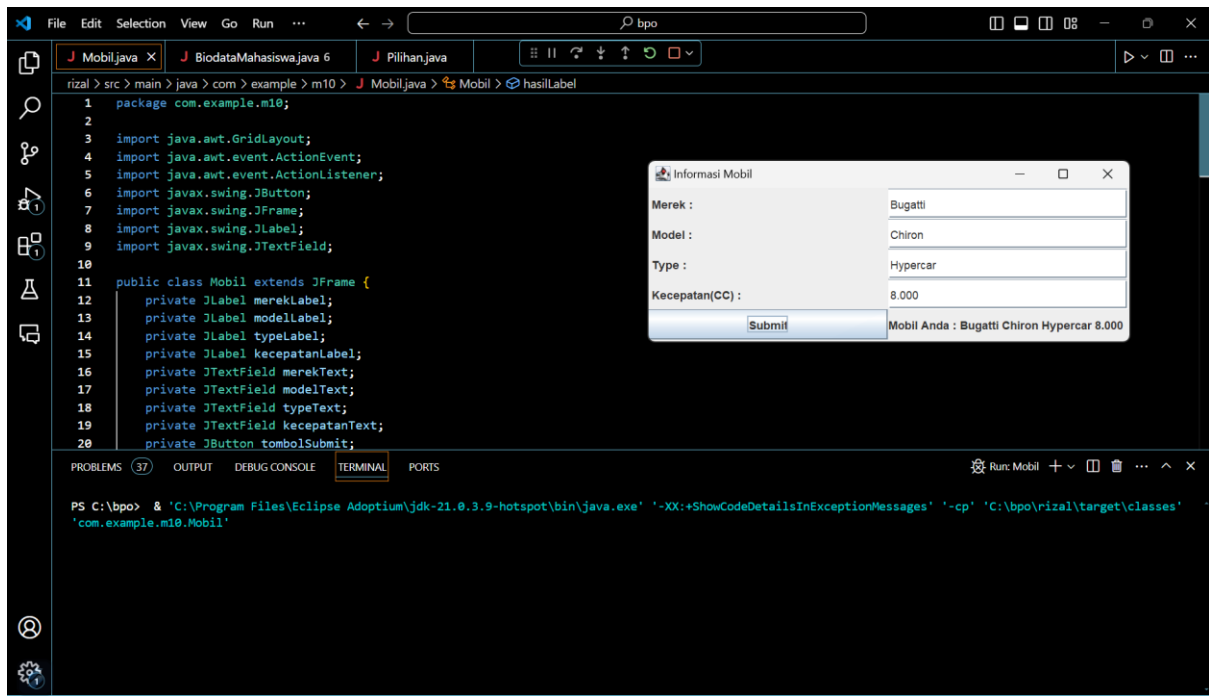
add(merekLabel);
add(merekText);
add(modellabel);
add(modelText);
add(typeLabel);
add(typeText);
add(kecepatanLabel);
add(kecepatanText);
add(tombolSubmit);
add(hasilLabel);

tombolSubmit.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        String merek = merekText.getText();
        String model = modelText.getText();
        String type = typeText.getText();
        String kecepatan = kecepatanText.getText();
        hasilLabel.setText("Mobil Anda : " + merek + " " + model + " "
+ type + " " + kecepatan);
    }
});

}

public static void main(String[] args) {
    Mobil form = new Mobil();
    form.setVisible(true);
}
}

```



TUGAS INDIVIDU UNTUK MINGGU DEPAN

1.

```
package com.example.m10;

import javax.swing.*;
import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;

public class BiodataMahasiswa extends JFrame {

    private JTextField fieldNIM, fieldNama;
    private JTextArea areaAlamat;
    private JRadioButton radioPria, radioWanita;
    private JComboBox<String> comboFakultas, comboProdi;
    private JButton tombolSimpan, tombolBacaData, tombolKeluar;

    public BiodataMahasiswa() {
        inisialisasiKomponen();
        aturLayout();
        aksi();
        setTitle("Formulir Biodata Mahasiswa");
        setSize(400, 400);
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        setVisible(true);
    }
}
```



```

private void inisialisasiKomponen() {
    JLabel labelNIM = new JLabel("NIM");
    JLabel labelNama = new JLabel("Nama");
    JLabel labelAlamat = new JLabel("Alamat");
    JLabel labelJenisKelamin = new JLabel("Jenis Kelamin");
    JLabel labelFakultas = new JLabel("Fakultas");
    JLabel labelProdi = new JLabel("Program Studi");

    fieldNIM = new JTextField(20);
    fieldNama = new JTextField(20);
    areaAlamat = new JTextArea(5, 20);
    radioPria = new JRadioButton("Pria");
    radioWanita = new JRadioButton("Wanita");
    ButtonGroup grupJenisKelamin = new ButtonGroup();
    grupJenisKelamin.add(radioPria);
    grupJenisKelamin.add(radioWanita);

    String[] opsiFakultas = {"Ilmu Komputer", "Pendidikan Guru Sekolah
Dasar", "Hukum", "Kehutanan"};
    comboFakultas = new JComboBox<>(opsiFakultas);
    String[] opsiProdi = {"Sistem Informasi", "Teknik Informatika",
"Desain Komunikasi Visual", "Managemen Informatika"};
    comboProdi = new JComboBox<>(opsiProdi);

    tombolSimpan = new JButton("Simpan");
    tombolBacaData = new JButton("Baca Data");
    tombolKeluar = new JButton("Keluar");
}

private void aturLayout() {
    setLayout(new GridBagLayout());
    GridBagConstraints gbc = new GridBagConstraints();
    gbc.insets = new Insets(5, 5, 5, 5);
    gbc.fill = GridBagConstraints.HORIZONTAL;

    gbc.gridx = 0; gbc.gridy = 0;
    add(new JLabel("NIM"), gbc);
    gbc.gridx = 1; gbc.gridy = 0;
    add(fieldNIM, gbc);

    gbc.gridx = 0; gbc.gridy = 1;
    add(new JLabel("Nama"), gbc);
    gbc.gridx = 1; gbc.gridy = 1;
    add(fieldNama, gbc);

    gbc.gridx = 0; gbc.gridy = 2;
    add(new JLabel("Alamat"), gbc);

```

```

gbc.gridx = 1; gbc.gridy = 2;
gbc.gridheight = 3;
add(new JScrollPane(areaAlamat), gbc);
gbc.gridheight = 1;

gbc.gridx = 0; gbc.gridy = 5;
add(new JLabel("Jenis Kelamin"), gbc);
gbc.gridx = 1; gbc.gridy = 5;
add(radioPria, gbc);
gbc.gridx = 2; gbc.gridy = 5;
add(radioWanita, gbc);

gbc.gridx = 0; gbc.gridy = 6;
add(new JLabel("Fakultas"), gbc);
gbc.gridx = 1; gbc.gridy = 6;
add(comboFakultas, gbc);

gbc.gridx = 0; gbc.gridy = 7;
add(new JLabel("Program Studi"), gbc);
gbc.gridx = 1; gbc.gridy = 7;
add(comboProdi, gbc);

gbc.gridx = 0; gbc.gridy = 8;
add(tombolSimpan, gbc);
gbc.gridx = 1; gbc.gridy = 8;
add(tombolBacaData, gbc);
gbc.gridx = 2; gbc.gridy = 8;
add(tombolKeluar, gbc);
}

private void aksi() {
    tombolSimpan.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent e) {
            JOptionPane.showMessageDialog(null, "Data disimpan");
        }
    });
    tombolBacaData.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent e) {
            StringBuilder data = new StringBuilder();
            data.append("  Biodata Mahasiswa\n");
            data.append("=====\n");
            data.append(String.format("NIM          : %s\n",
fieldNIM.getText()));
            data.append(String.format("Nama          : %s\n",
fieldNama.getText()));
            data.append(String.format("Alamat        : %s\n",
areaAlamat.getText()));
            data.append(String.format("Jenis Kelamin : %s\n",

```

```

radioPria.isSelected() ? "Pria" : "Wanita"));
        data.append(String.format("Fakultas      : %s\n",
comboFakultas.getSelectedItem()));
        data.append(String.format("Program Studi : %s\n",
comboProdi.getSelectedItem()));

        JOptionPane.showMessageDialog(null, data.toString(), "Data
Mahasiswa", JOptionPane.INFORMATION_MESSAGE);
    }
});
tombolKeluar.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        System.exit(0);
    }
});
}

public static void main(String[] args) {
    new BiodataMahasiswa();
}
}

```

Formulir Biodata Mahasiswa

NIM 20230810088

Nama Muhammad Rizal Nurfirdaus

Alamat Desa Sidaraja

Jenis Kelamin ☒ Pria ☐ Wanita

Fakultas Ilmu Komputer

Program Studi Teknik Informatika

Simpan Baca Data Keluar

