

Nama : Putra Sudaryanto
NIM : 12111075
Kelas/Prodi : 22/FTI

Pemrograman Berbasis Java

A. Coding

1.1. GUI

```
/**
 * Putra Sudaryanto
 * 12111075
 * 22/FTI
 **/

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

class Mygui extends JFrame {
    /* Mainmenu and Submenu */
    JMenuBar mainmenu = new JMenuBar();

    JMenu menu_file = new JMenu("File");
    JMenuItem submenu_exit = new JMenuItem("Exit");

    JMenu menu_data = new JMenu("Data");
    JMenuItem submenu_mhs = new JMenuItem("Data Mahasiswa");

    JMenu menu_about = new JMenu("About");
    JMenuItem submenu_about = new JMenuItem("About Us");

    Myform getForm = new Myform();

    public Mygui() {
        setTitle("Putra Sudaryanto | 12111075");
        setLocation(300,100);
        setSize(420,250);
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    }

    public void render() {
        /* Set Mainmenu and Submenu */
        setJMenuBar(mainmenu);
        mainmenu.add(menu_file);
        menu_file.add(submenu_exit);
        mainmenu.add(menu_data);
        menu_data.add(submenu_mhs);
        mainmenu.add(menu_about);
        menu_about.add(submenu_about);

        setVisible(true);
    }

    public void event() {
        submenu_exit.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e) {
```

Nama : Putra Sudaryanto
NIM : 12111075
Kelas/Prodi : 22/FTI

Pemrograman Berbasis Java

```
        System.exit(0);
    }
});

submenu_mhs.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        getForm.render();
        getForm.event();
    }
});

submenu_about.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        JOptionPane.showMessageDialog(null, "<html>Powered by
Putra Sudaryanto<br/><a
href='http://www.putra.omm.co'>www.putra.omm.co</a></html>", "About", JOpti
onPane.INFORMATION_MESSAGE);
    }
});
}

public static void main(String[]args) {
    Mygui g = new Mygui();
    g.render();
    g.event();
}
}
```

1.2. Form and Event

```
/**
 * Putra Sudaryanto
 * 12111075
 * 22/FTI
 */

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

class Myform extends JFrame {
    JTextField sinField = new JTextField(8);
    JTextField nameField = new JTextField(32);
    JTextField addressField = new JTextField(128);
    JTextField emailField = new JTextField(32);
    JTextField facebookField = new JTextField(64);
    JTextField phoneField = new JTextField(15);

    JRadioButton male = new JRadioButton("Male");
    JRadioButton female = new JRadioButton("Female");
    ButtonGroup gender = new ButtonGroup();
}
```

Nama : Putra Sudaryanto
NIM : 12111075
Kelas/Prodi : 22/FTI

Pemrograman Berbasis Java

```
String[] list_agama =
{"", "Islamic", "Katholic", "Christian", "Budhis", "Hindu", "Konghucu"};
JComboBox opt_agama = new JComboBox(list_agama);

JCheckBox watch_tv = new JCheckBox("Watch TV");
JCheckBox sleeping = new JCheckBox("Sleeping");

JTextArea textView = new JTextArea();
JButton buttonSave = new JButton("SAVE");
JButton buttonExit = new JButton("EXIT");

public Myform() {
    setTitle("Form Data Mahasiswa");
    setLocation(320,120);
    setSize(720,530);
    setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
}

public void render() {
    /* Form */
    JPanel prop = new JPanel();
    prop.setLayout(null);

    prop.add(new JLabel("NIM")).setBounds(10, 10, 100, 25);
    prop.add(new JLabel(": 12111075")).setBounds(100, 10, 200, 25);

    prop.add(new JLabel("Nama")).setBounds(10, 40, 100, 25);
    prop.add(new JLabel(": Dwi Putra Sudaryanto")).setBounds(100,
40, 200, 25);

    prop.add(new JLabel("E-Learning (Identity)")).setBounds(120,
80, 200, 25);

    prop.add(new JLabel("SIN")).setBounds(10, 120, 100, 25);
    prop.add(sinField).setBounds(100, 120, 150, 25);

    prop.add(new JLabel("Name")).setBounds(10, 150, 100, 25);
    prop.add(nameField).setBounds(100, 150, 200, 25);

    prop.add(new JLabel("Address")).setBounds(10, 180, 100, 25);
    prop.add(addressField).setBounds(100, 180, 280, 25);

    prop.add(new JLabel("Gender")).setBounds(10, 210, 100, 25);
    prop.add(male).setBounds(100, 210, 70, 25);
    prop.add(female).setBounds(180, 210, 70, 25);
    gender.add(male);
    gender.add(female);

    prop.add(new JLabel("Religion")).setBounds(10, 240, 100, 25);
    prop.add(opt_agama).setBounds(100, 240, 150, 25);
```

Nama : Putra Sudaryanto
NIM : 12111075
Kelas/Prodi : 22/FTI

Pemrograman Berbasis Java

```
prop.add(new JLabel("Hobby")).setBounds(10, 270, 100, 25);
prop.add(watch_tv).setBounds(100, 270, 200, 25);
prop.add(sleeping).setBounds(100, 290, 200, 25);

prop.add(new JLabel("E-Mail")).setBounds(10, 320, 100, 25);
prop.add(emailField).setBounds(100, 320, 200, 25);

prop.add(new JLabel("Facebook")).setBounds(10, 350, 100, 25);
prop.add(facebookField).setBounds(100, 350, 200, 25);

prop.add(new JLabel("Phone")).setBounds(10, 380, 100, 25);
prop.add(phoneField).setBounds(100, 380, 200, 25);

prop.add(textView).setBounds(400, 10, 250, 300);
prop.add(buttonSave).setBounds(100, 410, 70, 25);
prop.add(buttonExit).setBounds(180, 410, 70, 25);

this.setContentPane(prop);
setVisible(true);
}

public void event() {
    buttonSave.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent e) {
            textView.setText("");
            textView.append(sinField.getText()+"\n");
            textView.append(nameField.getText()+"\n");
            textView.append(addressField.getText()+"\n");

            if(male.isSelected() != true && female.isSelected() !=
true) {
                textView.append("gender cannot be blank\n");
            } else {
                if(male.isSelected() == true){
                    textView.append(male.getText()+"\n");
                } else {
                    textView.append(female.getText()+"\n");
                }
            }

            textView.append(opt_agama.getSelectedItem().toString()+"\n");

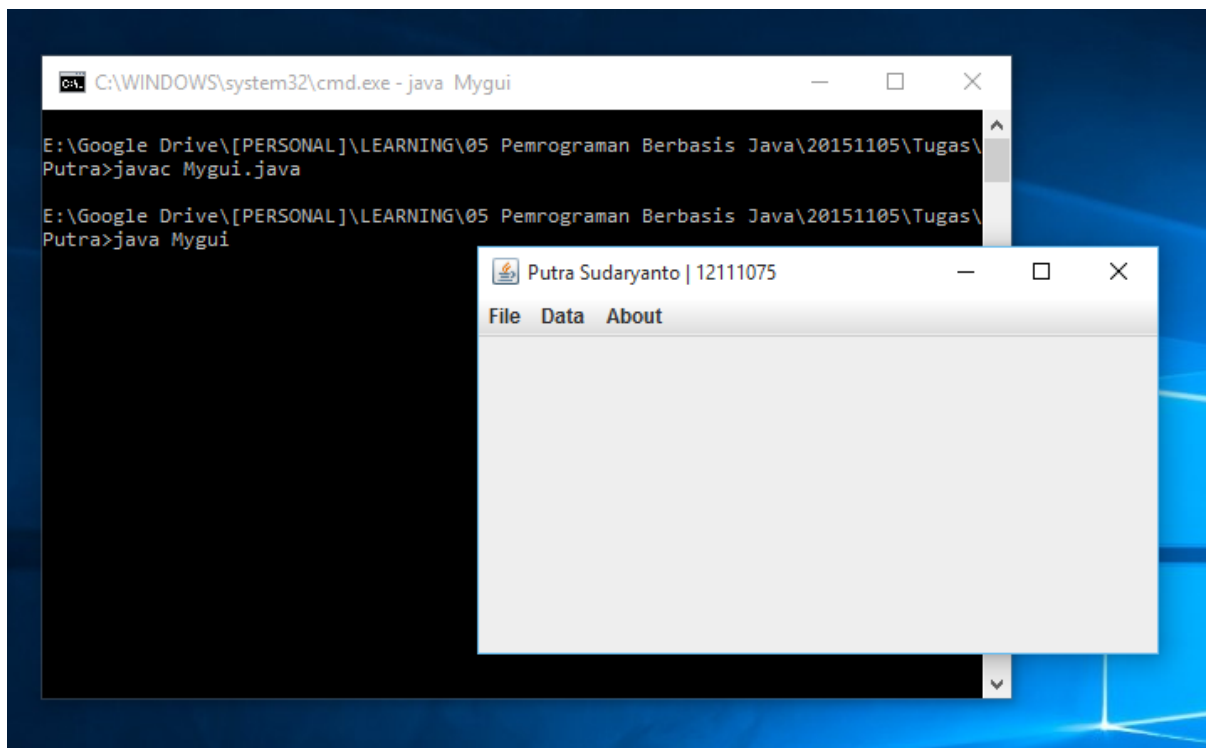
            if((watch_tv.isSelected() == true) &&
(sleeping.isSelected() == true)){
                textView.append(watch_tv.getText() +", "+
sleeping.getText()+"\n");
            }
            else if(sleeping.isSelected() == true){
                textView.append(sleeping.getText()+"\n");
            }
        }
    });
}
```

Nama : Putra Sudaryanto
NIM : 12111075
Kelas/Prodi : 22/FTI

Pemrograman Berbasis Java

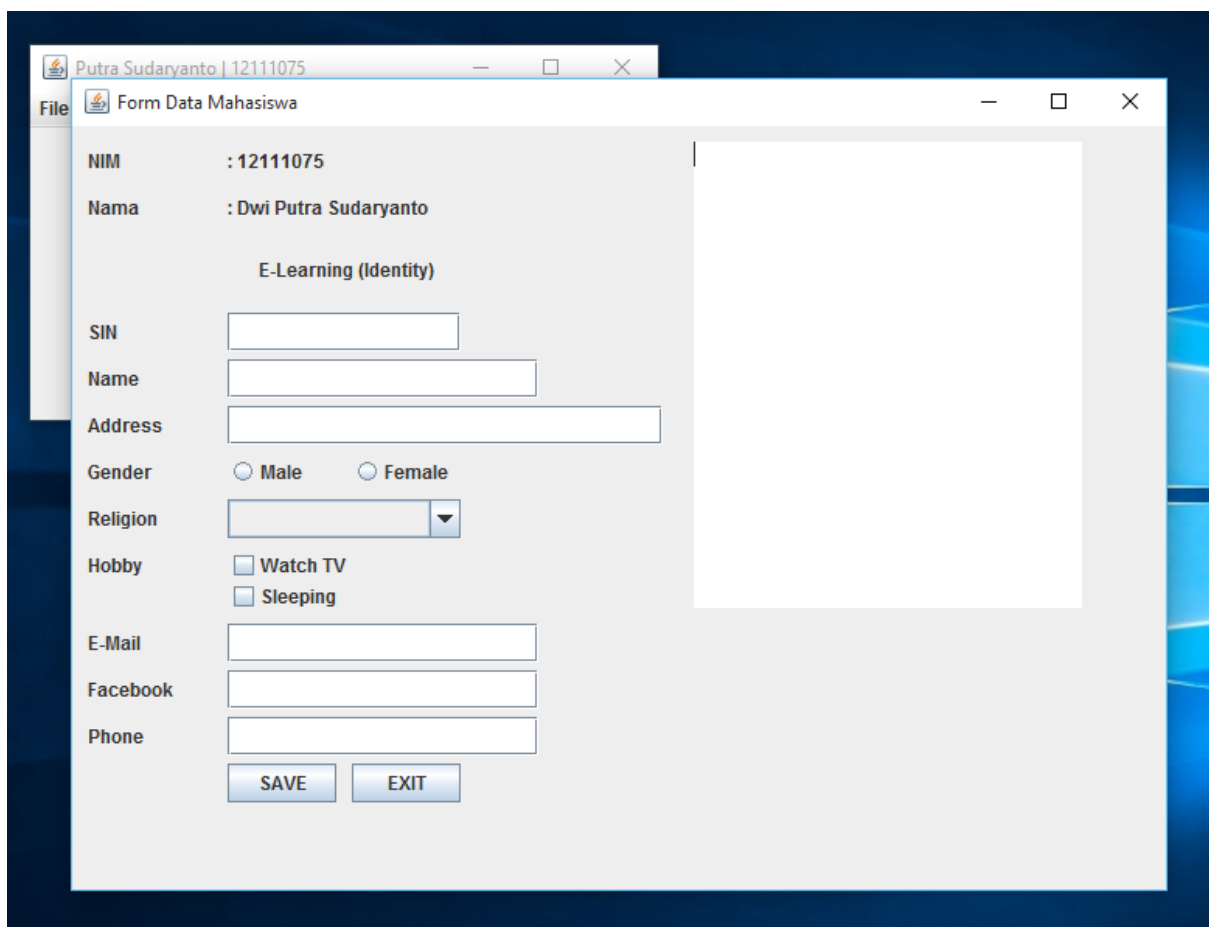
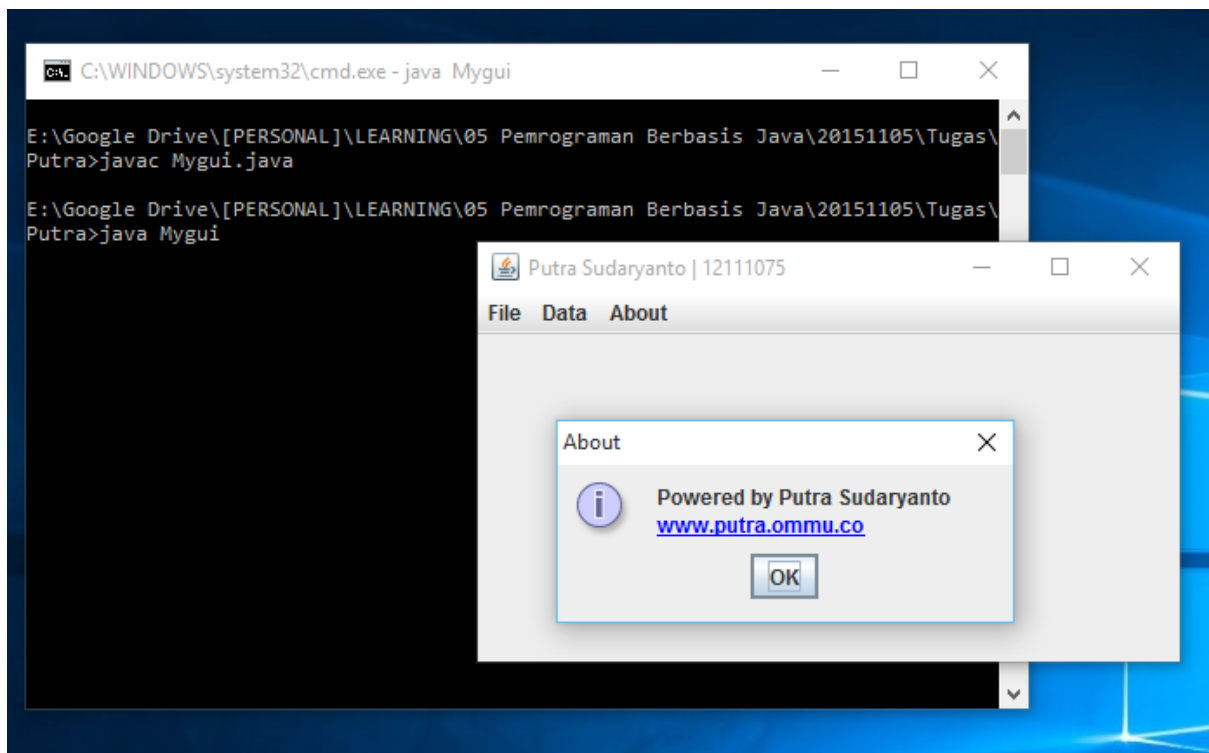
```
    }  
    else if(watch_tv.isSelected() == true){  
        textView.append(watch_tv.getText()+"\n");  
    }  
  
    textView.append(emailField.getText()+"\n");  
    textView.append(facebookField.getText()+"\n");  
    textView.append(phoneField.getText()+"\n");  
    }  
});  
  
buttonExit.addActionListener(new ActionListener() {  
    public void actionPerformed(ActionEvent e) {  
        System.exit(0);  
    }  
});  
  
}  
  
public static void main(String[]args) {  
    Myform f = new Myform();  
    f.render();  
    f.event();  
}  
}
```

B. Preview



Nama : Putra Sudaryanto
NIM : 12111075
Kelas/Prodi : 22/FTI

Pemrograman Berbasis Java



Nama : Putra Sudaryanto
NIM : 12111075
Kelas/Prodi : 22/FTI

Pemrograman Berbasis Java

Putra Sudaryanto | 12111075

File Form Data Mahasiswa

NIM	: 12111075	12111075
Nama	: Dwi Putra Sudaryanto	Putra Sudaryanto
E-Learning (Identity)		Sragen, Solo, Yogyakarta, Jakarta, Tangerang
SIN	<input type="text" value="12111075"/>	Male
Name	<input type="text" value="Putra Sudaryanto"/>	Islamic
Address	<input type="text" value="Sragen, Solo, Yogyakarta, Jakarta, Tangerang"/>	Watch TV, Sleeping
Gender	<input checked="" type="radio"/> Male <input type="radio"/> Female	putra.sudaryanto@gmail.com
Religion	<input type="text" value="Islamic"/>	facebook.com/sudaryanto.id
Hobby	<input checked="" type="checkbox"/> Watch TV <input checked="" type="checkbox"/> Sleeping	08562994114
E-Mail	<input type="text" value="putra.sudaryanto@gmail.com"/>	
Facebook	<input type="text" value="facebook.com/sudaryanto.id"/>	
Phone	<input type="text" value="08562994114"/>	