2123100102 - Ferdy Apriliyanto

1. Buatlah program seperti dibawah ini, dengan kondisi tertentu: Pada gambar diatas terdapat 1 buah Frame, 3 buah Button, dan 1 buah Kotak Dialog. Jika salah satu button pada window frame di klik, maka akan menampilkan kotak dialog yang berisikan pesan informasi dari masing-masing button (sesuai panah pada gambar diatas). Simpanlah dengan nama kelas Latihan01.

a. Source Code

```
1 package com.ibik.pbo.praktikum;
  3⊕ import java.awt.EventQueue; []
 .8 public class Latihan01 extends JFrame {
                         private JPanel contentPane;
!2⊖
!3
                           * Launch the application.
                         public static void main(String[] args) {
:6⊖
:7⊖
                                        EventQueue.invokeLater(new Runnable() {
                                                    public void run() {
                                                                    try {
                                                                            Latihan01 frame = new Latihan01();
19
10
                                                                                     frame.setVisible(true);
                                                                   } catch (Exception e) {
                                                                                    e.printStackTrace();
13
14
15
16
17
                                      });
                         }
19
                              * Create the frame.
!0
!1⊖
                         public Latihan01() {
                           setTitle("Latinan 01");
setResizable(for a for a 
13
14
                         setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
setBounds(100, 100, 450, 114);
setLocationRelativeTo(null);
contentPane = new JPanel();
contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
                                        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
         setContentPane(contentPane);
contentPane.setLayout(null);
                        final JButton button_Hello = new JButton("Hello");
                                    button_Hello.addMouseListener(new MouseAdapter() {
    @Override
                                                     public void mouseClicked(MouseEvent e) {
                                                                      JOptionPane jop = new JOptionPane();
```

```
jop.showMessageDialog(null, "Hello", "You Just Clicked " + button_Hello.getText(), jop.INFORMATION_MESSAGE);
});
button_Hello.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
button_Hello.setBounds(138, 10, 63, 23);
contentPane.add(button_Hello);
final JButton button_IBIK = new JButton("IBIK");
button_IBIK.addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent e) {
        JOptionPane jop = new JOptionPane();
        jop.showMessageDialog(null, "IBIK", "You Just Clicked " + button_IBIK.getText(), jop.INFORMATION_MESSAGE);
button IBIK.addActionListener(new ActionListener() {
   public void actionPerformed(ActionEvent e) {
});
button_IBIK.setBounds(162, 39, 89, 23);
contentPane.add(button_IBIK);
final JButton button_Everyone = new JButton("Everyone");
button Everyone.addMouseListener(new MouseAdapter() {
    public void mouseClicked(MouseEvent e) {
    JOptionPane jop = new JOptionPane();
        jop.showMessageDialog(null, "Everyone", "You Just Clicked " + button_Everyone.getText(), jop.INFORMATION_MESSAGE);
});
button_Everyone.setBounds(214, 10, 100, 23);
contentPane.add(button_Everyone);
```

b. Output



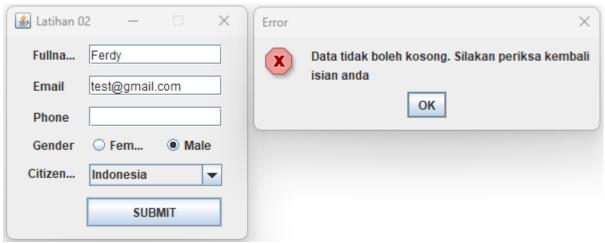
- 2. Buatlah sebuah logic, jika mengklik tombol SUBMIT akan mengeksekusi logic dibawah ini: Jika salah satu isian pada komponen form tersebut tidak diisi maka menampilkan Kotak Dialog pesan kesalahan "Data tidak boleh kosong. Silakan periksa kembali isian anda." Jika seluruh isian komponen form terpenuhi maka menampilkan seluruh data atau informasi tersebut dalam bentuk Kotak Dialog. Simpanlah dengan nama kelas Latihan02.
 - a. Source Code

```
1 package com.ibik.pbo.praktikum;
 3⊕ import java.awt.EventQueue;
20 public class Latihan02 extends JFrame {
       private JPanel contentPane;
       private JTextField field Email;
private JTextField field Fullname;
25
26
       private JTextField field Phone;
       private JLabel label Gender;
289
29
30
       * Launch the application.
*/
       public static void main(String[] args) {
32⊖
            EventQueue.invokeLater(new Runnable() {
33⊖
              public void run() {
                     34
35
                    frame.setVisible(true);
} catch (Exception e) {
36
37
38
                        e.printStackTrace();
39
40
41
           });
42
       }
43
449
45
46
47
48
49
50
51
52
53
54
55
56
57
        * Create the frame.
        public Latihan02() {
            setTitle("Latihan 02");
            setResizable(false);
           setDefaultCloseOperation(JFrame.EXIT ON CLOSE);
           setBounds(100, 100, 256, 241);
setLocationRelativeTo(null);
           contentPane = new JPanel();
           contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
           setContentPane(contentPane);
           contentPane.setLayout(null);
           final JLabel label Fullname = new JLabel("Fullname");
            label_Fullname.setBounds(26, 11, 46, 14);
```

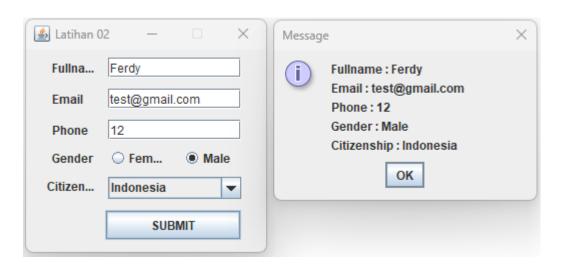
```
61
62
                          contentPane.add(label_Fullname);
 63
64
                          field_Email = new JTextField();
                         field Email.setBounds(82, 39, 133, 20);
                          contentPane.add(field_Email);
 66
                         field Email.setColumns(10);
 67
68
                         final JLabel label_Email = new JLabel("Email");
label_Email.setBounds(26, 42, 46, 14);
 69
 70
71
                         contentPane.add(label_Email);
                         field_Fullname = new JTextField();
 72
73
74
75
                         field_Fullname.setColumns(10);
field_Fullname.setBounds(82, 8, 133, 20);
                         contentPane.add(field Fullname);
 76
77
78
79
                         final JLabel label Phone = new JLabel("Phone");
                         label_Phone.setBounds(26, 73, 46, 14);
                         contentPane.add(label Phone);
 80
 81
                         field Phone = new JTextField();
 82
                         field Phone.setColumns(10);
 83
                         field Phone.setBounds(82, 70, 133, 20);
 84
85
                         contentPane.add(field Phone);
 86
                         label Gender = new JLabel("Gender");
 87
                         label_Gender.setBounds(26, 101, 46, 14);
 88
                        contentPane.add(label Gender);
 89
                        final JRadioButton rb_Female = new JRadioButton("Female");
rb_Female.setBounds(82, 97, 59, 23);
 90
 92
93
                         contentPane.add(rb_Female);
                        final JRadioButton rb_Male = new JRadioButton("Male");
rb_Male.setBounds(156, 97, 59, 23);
 94
95
 96
97
                         contentPane.add(rb_Male);
                         final JLabel label_Citizenship = new JLabel("Citizenship");
label_Citizenship.setBounds(21, 129, 51, 14);
 98
 99
100
                         contentPane.add(label_Citizenship);
                         final JComboBox cb_Citizenship = new JComboBox();
103
                         cb_Citizenship.setModel(new_DefaultComboBoxModel(new_String[] {"Indonesia", "Malaysia", "Singapore", "Laos", "Cambodia"}))
cb_Citizenship.setToolTipText("");
104
                         cb_Citizenship.setBounds(82, 127, 133, 22);
106
                         contentPane.add(cb_Citizenship);
107
108
                        JButton button_Submit = new JButton("SUBMIT");
                         button_Submit.addMouseListener(new MouseAdapter() {
    @Override
109⊖
1100
111
                                 public void mouseClicked(MouseEvent e) {
                                         113
114
116
                                                  String gender;
                                                   if (rb_Female.isSelected() == true) {
                                                           gender = "Female":
119
                                                   }else {
                                                          gender = "Male";
                                                    \begin{tabular}{ll} {\tt JOptionFane.showMessageDialog(null, label\_Fullname.getText() + ": " + field\_Fullname.getText() + "\n" + label\_Fullname.getText() + " | n" + label\_Fullname.getText() + label\_Fu
124
                                }
                         });
1269
                          button_Submit.addActionListener(new ActionListener() {
127⊖
                                 public void actionPerformed(ActionEvent e) {
129
                          button_Submit.setBounds(79, 160, 136, 30);
131
                         contentPane.add(button_Submit);
133 }
```

b. Output

- Jika ada salah satu field yang kosong



- Jika seluruh isian diisi

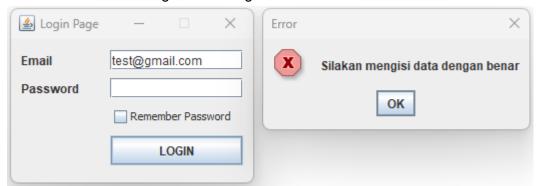


3. Buatlah sebuah form isian yang terdiri dari Email, Password dan Remember Password (dalam bentuk checkbox).

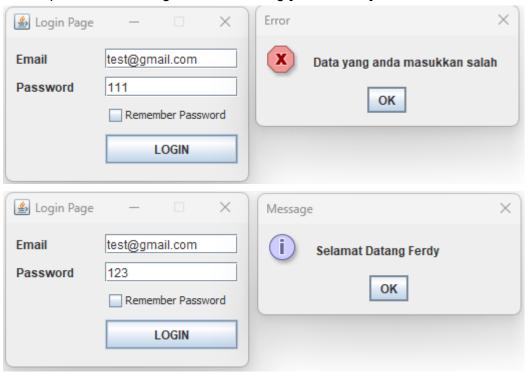
```
package com.ibik.pbo.praktikum;
 30 import java.awt.EventQueue;
 5 import javax.swing.JFrame;
 6 import javax.swing.JPanel;
7 import javax.swing.border.EmptyBorder;
 8 import javax.swing.JLabel;
 9 import javax.swing.JOptionPane;
10 import javax.swing.JTextField;
11 import javax.swing.JCheckBox;
12 import java.awt.Font;
13 import javax.swing.JButton;
14 import java.awt.event.MouseAdapter;
15 import java.awt.event.MouseEvent;
17 public class Latihan03 extends JFrame {
        private JPanel contentPane;
        private JTextField field_Email;
private JTextField field_Password;
20
        private JButton button_Login;
240
25
          * Launch the application.
26
        public static void main(String[] args) {
28⊖
29⊖
             EventQueue.invokeLater(new Runnable() {
                 public void run() {
30
                          Latihan03 frame = new Latihan03();
31
32
33
                           frame.setVisible(true);
                      } catch (Exception e) {
                          e.printStackTrace();
34
35
36
37
38
                      1
            });
        }
39
40<sup>©</sup>
41
42
          * Create the frame.
43
44
45
        public Latihan03() {
             setResizable(false);
             setTitle("Login Page");
46
47
48
49
50
51
52
53
54
56
57
58
60
61
62
63
64
66
67
77
77
77
77
78
88
             setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
             setBounds(100, 100, 258, 182);
setLocationRelativeTo(null);
             contentPane = new JPanel():
             contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
             setContentPane(contentPane);
             contentPane.setLayout(null);
             JLabel label_Email = new JLabel("Email");
             label Email.setBounds(10, 14, 46, 14);
        contentPane.add(label_Email);
             field_Email = new JTextField();
             field Email.setColumns(10);
             field_Email.setBounds(99, 11, 133, 20);
             contentPane.add(field Email);
             JLabel label Password = new JLabel("Password");
             label_Password.setBounds(10, 42, 79, 14);
             contentPane.add(label Password);
             field Password = new JTextField();
             field_Password.setColumns(10);
             field_Password.setBounds(99, 39, 133, 20);
             contentPane.add(field_Password);
             JCheckBox cb_RemPassword = new JCheckBox("Remember Password");
             cb_RemPassword.setFont(new Font("Tahoma", Font.PLAIN, 11));
cb_RemPassword.setBounds(99, 66, 125, 23);
             contentPane.add(cb_RemPassword);
             button_Login = new JButton("LOGIN");
             button_Login.addMouseListener(new MouseAdapter() {
    @Override
                 public void mouseClicked(MouseEvent e) {
                     if ffield Email.getText().equals("") || field_Password.getText().equals("")) {
    JOptionPane.showMessageDialog(null, "Silakan mengisi data dengan benar", "Error", JOptionPane.ERROR_MESSAGE);
                      }else if (field_Email.getText().equals("test@gmail.com") && field_Password.getText().equals("123")) {
                          JOptionPane.showMessageDialog(null, "Selamat Datang Ferdy");
                          JOptionPane.showMessageDialog(null, "Data yang anda masukkan salah", "Error", JOptionPane.ERROR MESSAGE);
```

B. Output

 Jika salah satu isian tidak terpenuhi maka akan menampilkan kotak dialog pesan kesalahan "Silakan mengisi data dengan benar"



Inputan Email harus bernilai email anda, dan inputan Password harus bernilai NPM anda. Jika salah satu tidak terpenuhi maka akan menampilkan kotak dialog pesan kesalahan "Data yang anda masukan salah" namun Jika semua kondisi benar maka menampilkan kotak dialog "Selamat Datang [Nama Anda]".



5. Buatlah program berdasarkan gambar dibawah ini Simpanlah dengan nama kelas Latihan04.

a. Source Code

```
1 package com.ibik.pbo.praktikum;
   3⊖ import java.awt.EventQueue;
   5 import javax.swing.JFrame;
6 import javax.swing.JPanel;
7 import javax.swing.JScrollPane;
mport javax.swing.border.EmptyBorder;
import javax.swing.JMenuBar;
 import javax.swing.JMenuItem;
import javax.swing.JMenu;
import javax.swing.JMenu;
import javax.swing.JTable;
import javax.swing.Jtable.DefaultTableModel;
import javax.swing.Jtabel;
import javax.swing.Jtabel;
 16 import javax.swing.SwingConstants;
17 import javax.swing.JTextField;
18 import javax.swing.JRadioButton;
 import javax.swing.JButton;
import java.awt.event.ActionListener;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;
import javax.swing.border.EtchedBorder;
import javax.swing.border.TitledBorder;
import java.awt.Color;
26 public class Latihan04 extends JFrame {
           private JTable table;
private JTable table 1;
private JTable table 2;
27
  30
               private JTextField textField;
  31
32
               private JTextField textField_1;
               * Launch the application. */
  34
35
               public static void main(String[] args) {
                EventQueue.invokeLater(new Runnable() {
                  public void run() {
                              try {
    Latihan04 frame = new Latihan04();
    frame.setVisible(true);
} catch (Exception e) {
                     e.printStackTrace();
}
```

```
});
 48
 490
 50
          * Create the frame.
 51
 52⊖
         public Latihan04() {
             setTitle("Latihan 04");
 53
              setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
 55
56
             setBounds(100, 100, 899, 614);
             JMenuBar menuBar = new JMenuBar();
 57
58
             setJMenuBar(menuBar);
 59
60
             JMenu menu_File = new JMenu("File");
 61
             menuBar.add(menu_File);
 62
 63
             JMenuItem new_MenuItem = new JMenuItem("New");
 64
             menu_File.add(new_MenuItem);
 65
 66
67
             JMenuItem save MenuItem = new JMenuItem("Save");
             menu_File.add(save_MenuItem);
 68
69
             JMenuItem exit_MenuItem = new JMenuItem("Exit");
 70
71
             menu_File.add(exit_MenuItem);
 72
73
             JMenu menu_Edit = new JMenu("Edit");
             menuBar.add(menu Edit);
 74
75
             JMenu menu Help = new JMenu("Help");
 76
77
78
79
             menuBar.add(menu_Help);
             getContentPane().setLayout(null);
             JScrollPane scrollPane = new JScrollPane();
 80
              scrollPane.setBounds(348, 88, 535, 454);
81
82
             getContentPane().add(scrollPane);
 83
84
              table_2 = new JTable();
             table 2.setShowVerticalLines(false);
 85
86
              table_2.setShowHorizontalLines(false);
              table 2.setShowGrid(false);
              table_2.setModel(new DefaultTableModel(
                 88
 90
                      {"212310020", "MUHAMAD SUBHAN RIZKI AFIA", "A"},
 92
                  new String[] {
                       "NPM", "Nama", "Nilai"
 94
 95
 96
 97
              table 2.getColumnModel().getColumn(0).setMaxWidth(150);
 98
99
              scrollPane.setViewportView(table_2);
              JLabel 1b1NewLabel = new JLabel("FORM PENILAIAN MATA KULIAH PBO ");
              lblNewLabel.setHorizontalAlignment(SwingConstants.CENTER);
102
              lblNewLabel.setFont(new Font("Tahoma", Font.PLAIN, 30));
103
              lblNewLabel.setBounds(164, 11, 553, 58);
104
             getContentPane().add(lblNewLabel);
105
106
              JLabel lblNewLabel 1 1 = new JLabel("NPM");
107
              lblNewLabel_1_1.setFont(new Font("Tahoma", Font.PLAIN, 15));
              lblNewLabel_1_1.setBounds(30, 140, 117, 14);
108
109
              getContentPane().add(lblNewLabel_1_1);
              textField = new JTextField();
             textField.setBounds(40, 166, 265, 39);
getContentPane().add(textField);
113
114
115
              textField.setColumns(10);
116
              textField_1 = new JTextField();
              textField_1.setColumns(10);
textField_1.setBounds(40, 267, 265, 39);
118
119
             getContentPane().add(textField 1);
120
             JLabel lblNewLabel_1_1_1 = new JLabel("Nama");
lblNewLabel_1_1_1.setFont(new Font("Tahoma", Font.PLAIN, 15));
lblNewLabel_1_1_1.setBounds(30, 241, 117, 14);
getContentPane().add(lblNewLabel_1_1_1);
123
124
125
126
              JLabel lblNewLabel_1_1_1_1 = new JLabel("Nilai");
             lblNewLabel 1 1 1 1 1.setFont(new Font("Tahoma", Font.PLAIN, 15));
lblNewLabel 1 1 1 1.setBounds(30, 343, 117, 14);
127
128
              getContentPane().add(lblNewLabel_1_1_1_1);
129
              JRadioButton rdbtnNewRadioButton = new JRadioButton("A");
              rdbtnNewRadioButton.setBounds(38, 377, 33, 23);
             getContentPane().add(rdbtnNewRadioButton);
134
              JRadioButton rdbtnB = new JRadioButton("B");
```

```
JRadioButton rdbtnB = new JRadioButton("B");
rdbtnB.setBounds(84, 377, 33, 23);
 137
                 getContentPane().add(rdbtnB);
                JRadioButton rdbtnC = new JRadioButton("C");
rdbtnC.setBounds(130, 377, 33, 23);
 139
 141
142
                getContentPane().add(rdbtnC);
 143
                 JRadioButton rdbtnD = new JRadioButton("D");
  144
                 rdbtnD.setBounds(175, 377, 33, 23);
 145
                getContentPane().add(rdbtnD);
 147
148
                JRadioButton rdbtnE = new JRadioButton("E");
rdbtnE.setBounds(224, 377, 33, 23);
 149
150
                getContentPane().add(rdbtnE);
 151
152
                JRadioButton rdbtnF = new JRadioButton("F");
rdbtnF.setBounds(269, 377, 33, 23);
                getContentPane().add(rdbtnF);
 154
                 JButton btnNewButton = new JButton("Save");
  1569
                 btnNewButton.addActionListener(new ActionListener() {
△157⊖
158
                      public void actionPerformed(ActionEvent e) {
 159
 160
                 btnNewButton.setBounds(34, 427, 89, 39);
 161
                 getContentPane().add(btnNewButton);
 162
 163
                 JButton btnDelete = new JButton("Delete");
                 btnDelete.setBounds(133, 427, 89, 39);
 164
 165
                 getContentPane().add(btnDelete);
 166
 167
168
              JButton btnClear = new JButton("Clear");
btnClear.setBounds(232, 427, 89, 39);
 169
170
                getContentPane().add(btnClear);
 171
                JPanel panel = new JPanel();
 172
173
174
                panel.setBorder(new TitledBorder(new EtchedBorder(EtchedBorder.LOWERED, new Color(255, 255, 255), new Color(160, 160, 160) panel.setBounds(10, 81, 328, 461);
                 getContentPane().add(panel);
175
%176
                 JMenu fileMenu = new JMenu("File");
06177
06178
                 JMenu editMenu = new JMenu("Edit");
JMenu helpMenu = new JMenu("Help");
```

b. Output

