

## LAPORAN TUGAS PEKAN 8



**MATA KULIAH ALGORITMA PEMROGRAMAN**

**DOSEN PENGAMPU:**

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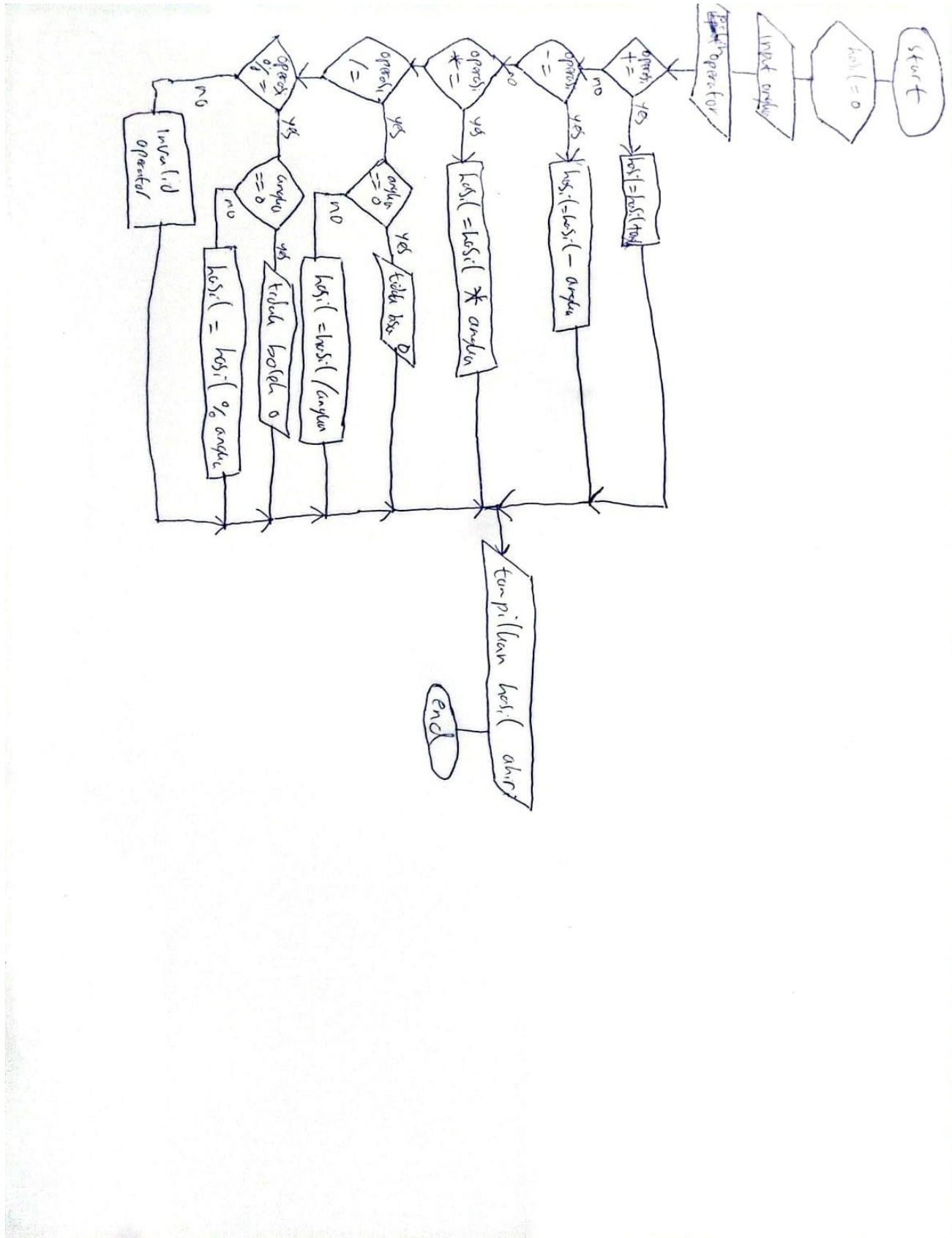
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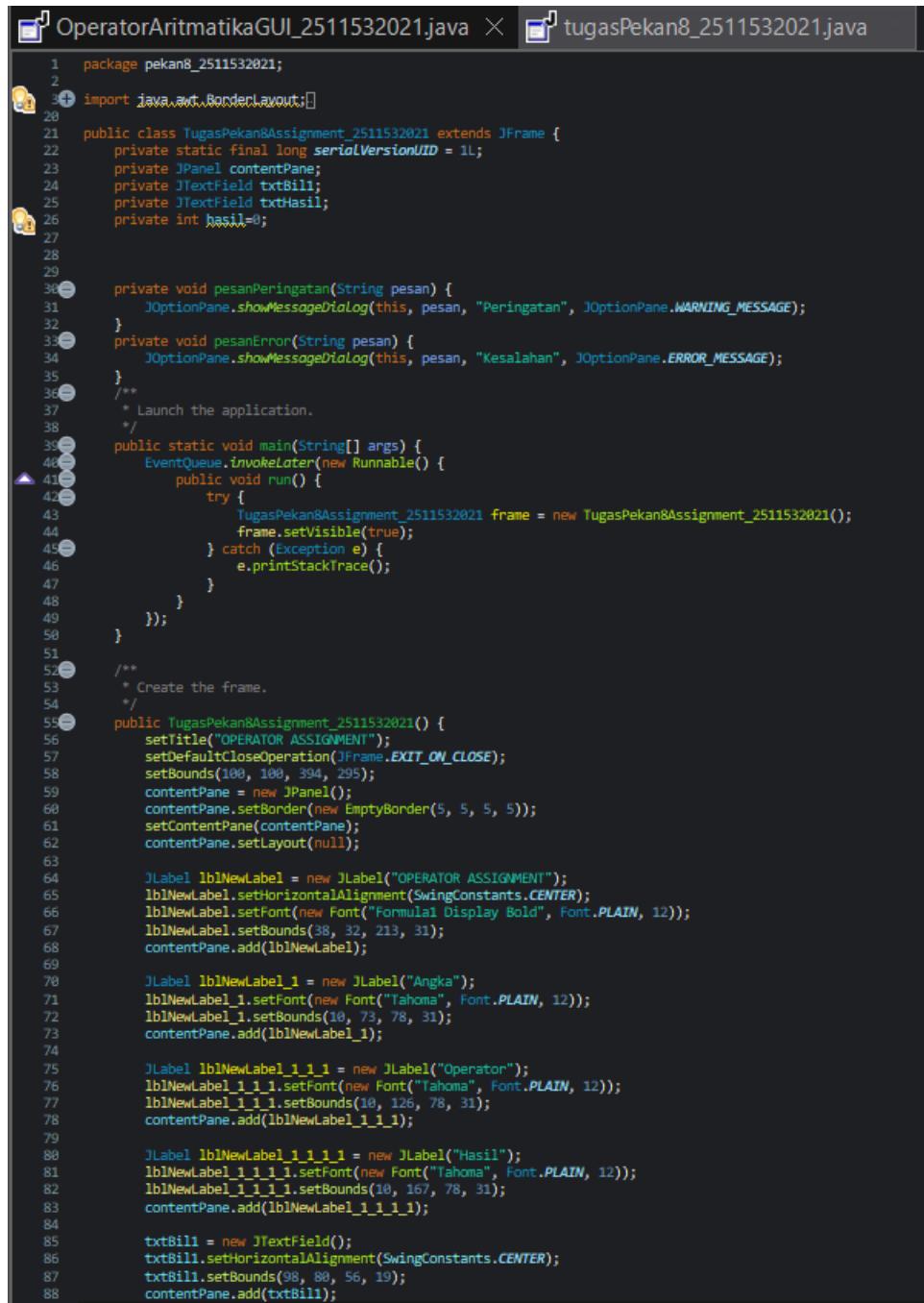
**UNIVERSITAS ANDALAS**

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## Flowchart



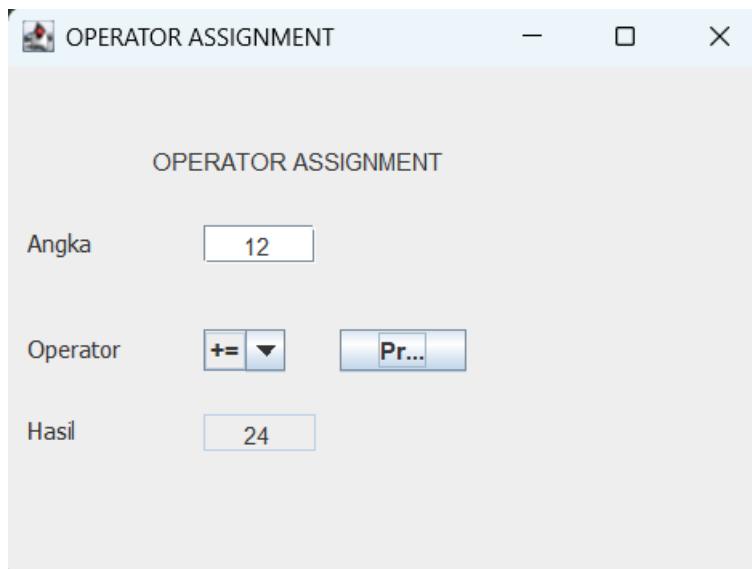
## Source Code Beserta Output



```
1 package pekan8_2511532021;
2
3+ import java.awt.BorderLayout;
4
5
6 public class TugasPekan8Assignment_2511532021 extends JFrame {
7     private static final long serialVersionUID = 1L;
8     private JPanel contentPane;
9     private JTextField txtBill;
10    private JTextField txtHasil;
11    private int hasil=0;
12
13
14    private void pesanPeringatan(String pesan) {
15        JOptionPane.showMessageDialog(this, pesan, "Peringatan", JOptionPane.WARNING_MESSAGE);
16    }
17    private void pesanError(String pesan) {
18        JOptionPane.showMessageDialog(this, pesan, "Kesalahan", JOptionPane.ERROR_MESSAGE);
19    }
20    /**
21     * Launch the application.
22     */
23    public static void main(String[] args) {
24        EventQueue.invokeLater(new Runnable() {
25            public void run() {
26                try {
27                    TugasPekan8Assignment_2511532021 frame = new TugasPekan8Assignment_2511532021();
28                    frame.setVisible(true);
29                } catch (Exception e) {
30                    e.printStackTrace();
31                }
32            }
33        });
34    }
35
36    /**
37     * Create the frame.
38     */
39    public TugasPekan8Assignment_2511532021() {
40        setTitle("OPERATOR ASSIGNMENT");
41        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
42        setBounds(100, 100, 394, 295);
43        contentPane = new JPanel();
44        contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
45        setContentPane(contentPane);
46        contentPane.setLayout(null);
47
48        JLabel lblNewLabel = new JLabel("OPERATOR ASSIGNMENT");
49        lblNewLabel.setHorizontalAlignment(SwingConstants.CENTER);
50        lblNewLabel.setFont(new Font("Formal Display Bold", Font.PLAIN, 12));
51        lblNewLabel.setBounds(38, 32, 213, 31);
52        contentPane.add(lblNewLabel);
53
54        JLabel lblNewLabel_1 = new JLabel("Angka");
55        lblNewLabel_1.setFont(new Font("Tahoma", Font.PLAIN, 12));
56        lblNewLabel_1.setBounds(10, 73, 78, 31);
57        contentPane.add(lblNewLabel_1);
58
59        JLabel lblNewLabel_1_1_1 = new JLabel("Operator");
60        lblNewLabel_1_1_1.setFont(new Font("Tahoma", Font.PLAIN, 12));
61        lblNewLabel_1_1_1.setBounds(10, 126, 78, 31);
62        contentPane.add(lblNewLabel_1_1_1);
63
64        JLabel lblNewLabel_1_1_1_1 = new JLabel("Hasil");
65        lblNewLabel_1_1_1_1.setFont(new Font("Tahoma", Font.PLAIN, 12));
66        lblNewLabel_1_1_1_1.setBounds(10, 167, 78, 31);
67        contentPane.add(lblNewLabel_1_1_1_1);
68
69        txtBill = new JTextField();
70        txtBill.setHorizontalAlignment(SwingConstants.CENTER);
71        txtBill.setBounds(98, 80, 56, 19);
72        contentPane.add(txtBill);
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
```

```

98
99
100 JComboBox cbOperator = new JComboBox();
101 cbOperator.setModel(new DefaultComboBoxModel(new String[]{"+", "-", "*", "/", "%"}));
102 cbOperator.setBounds(98, 132, 41, 21);
103 contentPane.add(cbOperator);
104
105 JTextField txtHasil = new JTextField();
106 txtHasil.setEditable(false);
107 txtHasil.setHorizontalAlignment(SwingConstants.CENTER);
108 txtHasil.setColumns(10);
109 txtHasil.setBounds(98, 174, 56, 19);
110 contentPane.add(txtHasil);
111
112 JButton btnNewButton = new JButton("Proses");
113 btnNewButton.addActionListener(new ActionListener() {
114     int hasil;
115     public void actionPerformed(ActionEvent e) {
116         if(txtBill1.getText().trim().isEmpty()) pesanPeringatan("Angka harus diisi");
117         else {
118             int nilai;
119             try {
120                 nilai = Integer.parseInt(txtBill1.getText().trim());
121                 int op = cbOperator.getSelectedIndex();
122
123                 switch (op) {
124                     case 0: hasil += nilai; break;
125                     case 1: hasil -= nilai; break;
126                     case 2: hasil *= nilai; break;
127                     case 3:
128                         if (nilai == 0) {
129                             JOptionPane.showMessageDialog(null, "Tidak bisa bagi dengan 0!");
130                             return;
131                         }
132                         hasil /= nilai;
133                         break;
134                     case 4:
135                         if (nilai == 0) {
136                             JOptionPane.showMessageDialog(null, "Tidak bisa modulus dengan 0!");
137                             return;
138                         }
139                         hasil %= nilai;
140                         break;
141                 }
142             } catch (NumberFormatException ex) {
143                 pesanError("Input harus berupa angka!");
144             }
145         }
146         txtHasil.setText(String.valueOf(hasil));
147     }
148 });
149 btnNewButton.setBounds(166, 132, 63, 21);
150 contentPane.add(btnNewButton);
151
152 }
153 }
```



## **Soal : Buat GUI Untuk Operasi Assignment**

Program ini bertujuan untuk memvisualisasikan operasi assignment

### **Judul**

GUI untuk Operasi Assignment

Program ini untuk memberikan GUI pada input pengguna yang nantinya akan digunakan untuk operasi Assignment

### **Deklarasi**

Hasil ; integer

### **Pseudocode**

```
1. Hasil = 0
2. Nilai = input("angka 1")
3. Operator = GetOperator()
4.
5. If operator == "+" then
6.     Hasil = hasil + nilai
7. End if
8.
9. If operator == "-" then
10.    Hasil = hasil - nilai
11. End if
12.
13.If operator == "*" then
14.    Hasil = hasil * nilai
15. End if
16.
17.If operator == "/" then
18.    If nilai != 0 then
19.        Hasil = hasil / nilai
20.    End if
21. Else
22.    Cetak Pembagi tidak boleh 0
23. End if
24.
25.If operator == "%" then
26.    If nilai != 0 then
27.        Hasil = hasil % nilai
28.    End if
29. Else
30.    Cetak Pembagi tidak boleh 0
31. End if
32.
33. Tampilkan hasil
```

