

Latihan Pembelajaran 8

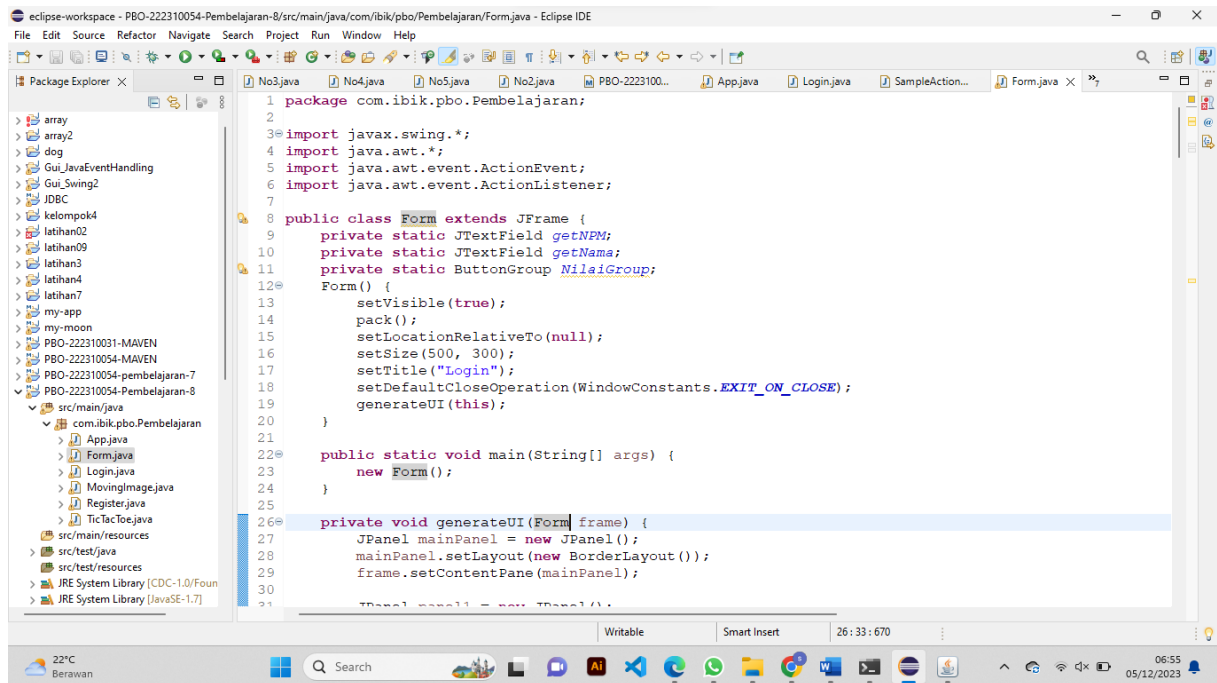
Nama: Siti Rohmah

NPM: 222310054

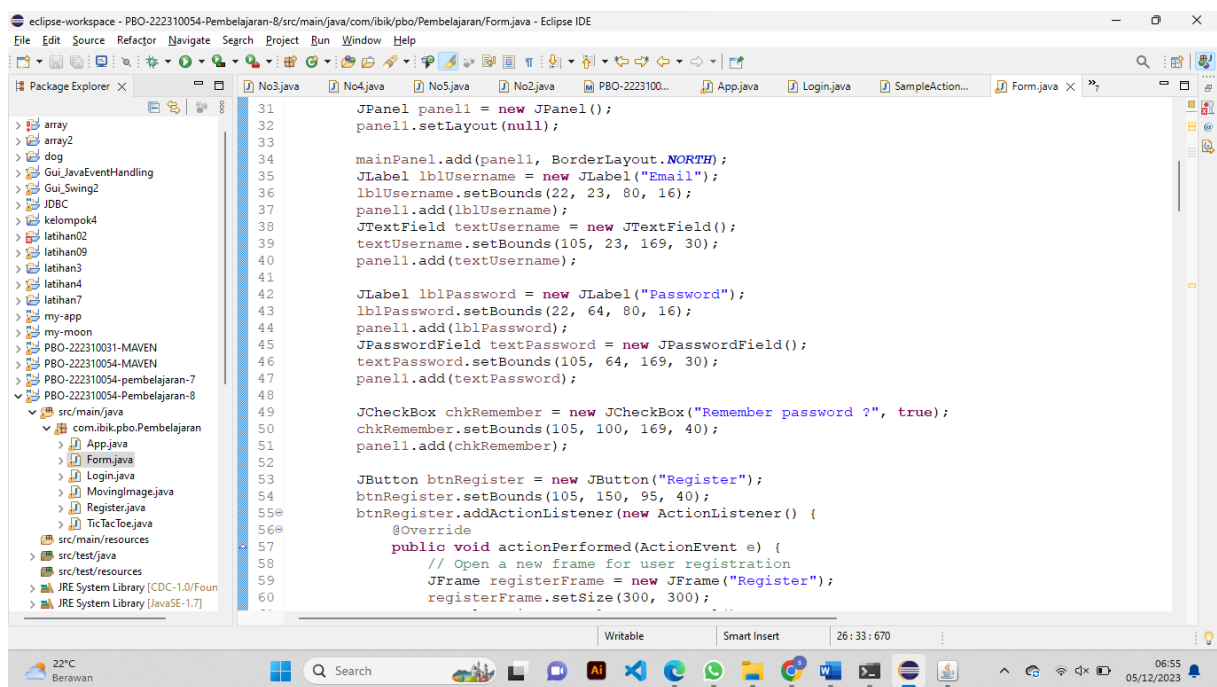
Kelas: TI-22-PB

```
C:\Windows\System32\cmd.exe X + v
C:\>mvn -B archetype:generate -DgroupId=com.ibik.pbo.Pembelajaran -DartifactId=PBO-222310054-Pembelajaran-8 -DarchetypeArtifactId=maven-archetype-qu
ickstart -DarchetypeVersion=1.4
[INFO] Scanning for projects...
[INFO]
[INFO] -----< org.apache.maven:standalone-pom >-----
[INFO] Building Maven Stub Project (No POM) 1
[INFO] -----[ pom ]-----
[INFO]
[INFO] >>> archetype:3.2.1:generate (default-cli) > generate-sources @ standalone-pom >>>
[INFO]
[INFO] <<< archetype:3.2.1:generate (default-cli) < generate-sources @ standalone-pom <<<
[INFO]
[INFO] --- archetype:3.2.1:generate (default-cli) @ standalone-pom ---
[INFO] Generating project in Batch mode
[WARNING] No archetype found in remote catalog. Defaulting to internal catalog
[INFO]
[INFO] -----
[INFO] Using following parameters for creating project from Archetype: maven-archetype-quickstart:1.4
[INFO] -----
[INFO] Parameter: groupId, Value: com.ibik.pbo.Pembelajaran
[INFO] Parameter: artifactId, Value: PBO-222310054-Pembelajaran-8
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] Parameter: package, Value: com.ibik.pbo.Pembelajaran
[INFO] Parameter: packageInPathFormat, Value: com/ibik/pbo/Pembelajaran
[INFO] Parameter: package, Value: com.ibik.pbo.Pembelajaran
[INFO] Parameter: groupId, Value: com.ibik.pbo.Pembelajaran
[INFO] Parameter: artifactId, Value: PBO-222310054-Pembelajaran-8
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] Project created from Archetype in dir: C:\PBO-222310054-Pembelajaran-8
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] -----
[INFO] Total time: 5.193 s
[INFO] Finished at: 2023-12-03T01:30:09+07:00
[INFO] -----
```

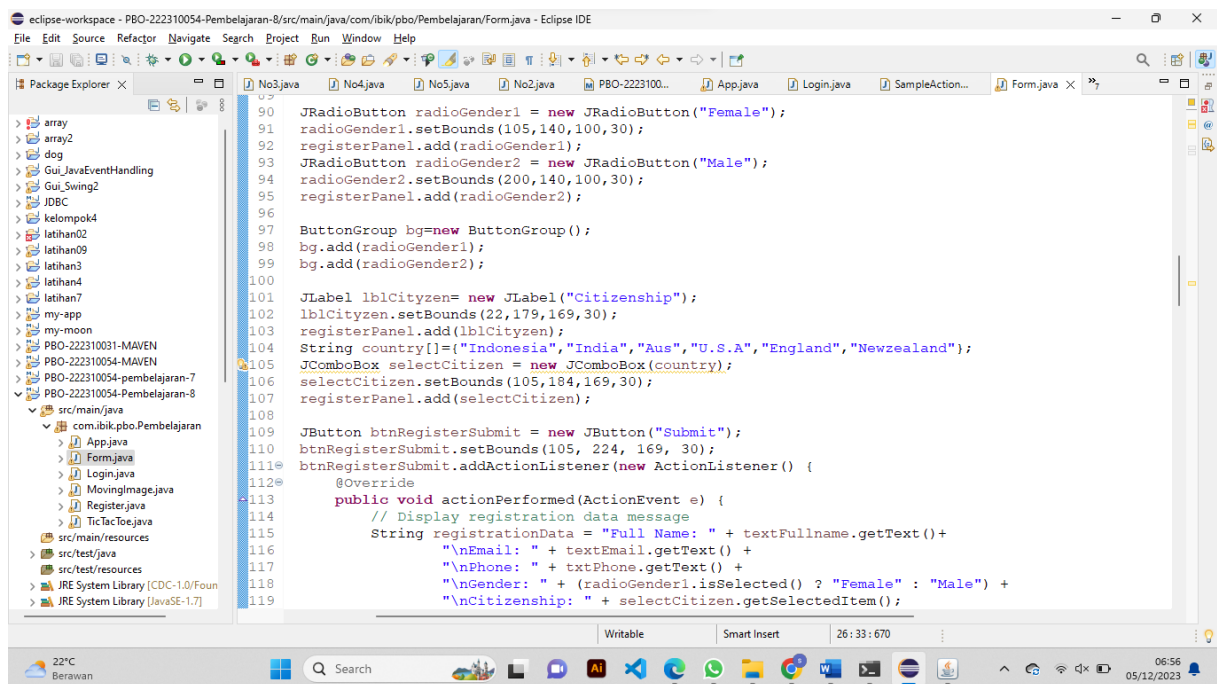
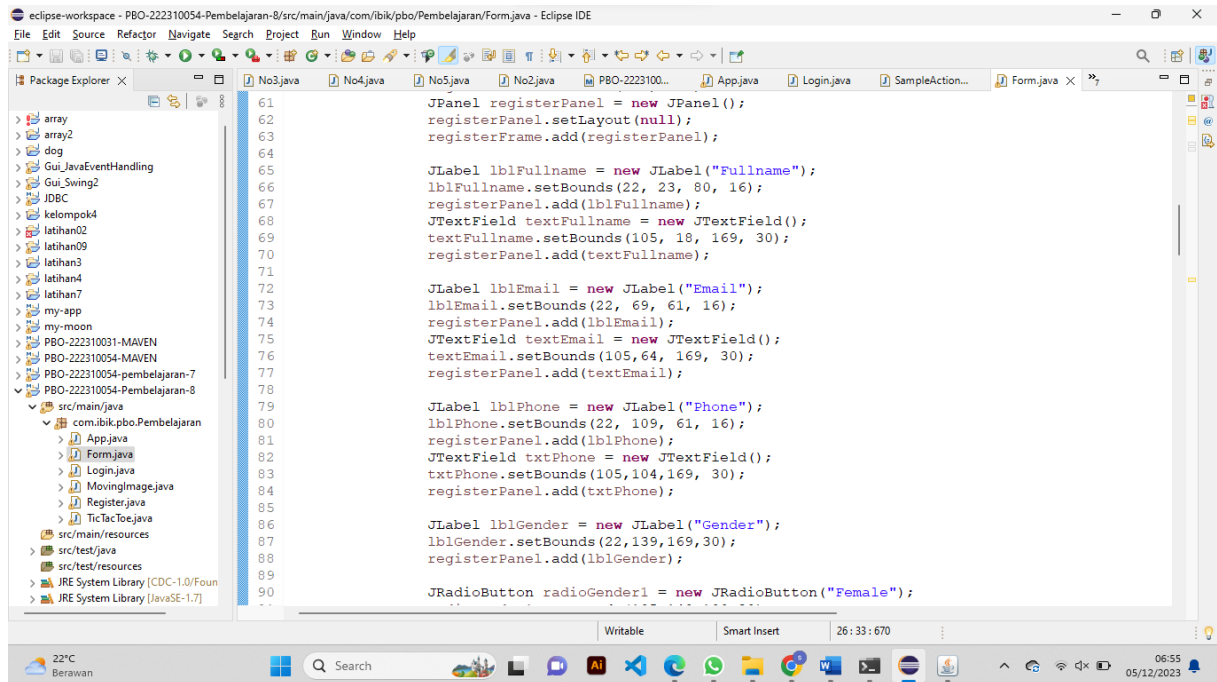
No1



```
1 package com.ibik.pbo.Pembelajaran;
2
3 import javax.swing.*;
4 import java.awt.*;
5 import java.awt.event.ActionEvent;
6 import java.awt.event.ActionListener;
7
8 public class Form extends JFrame {
9     private static JTextField getNPM;
10    private static JTextField getName;
11    private static ButtonGroup NilaiGroup;
12    Form() {
13        setVisible(true);
14        pack();
15        setLocationRelativeTo(null);
16        setSize(500, 300);
17        setTitle("Login");
18        setDefaultCloseOperation(WindowConstants.EXIT_ON_CLOSE);
19        generateUI(this);
20    }
21
22    public static void main(String[] args) {
23        new Form();
24    }
25
26    private void generateUI(Form frame) {
27        JPanel mainPanel = new JPanel();
28        mainPanel.setLayout(new BorderLayout());
29        frame.setContentPane(mainPanel);
30    }
31}
```



```
31 JPanel panel1 = new JPanel();
32 panel1.setLayout(null);
33
34 mainPanel.add(panel1, BorderLayout.NORTH);
35 JLabel lblUsername = new JLabel("Email");
36 lblUsername.setBounds(22, 23, 80, 16);
37 panel1.add(lblUsername);
38 JTextField textUsername = new JTextField();
39 textUsername.setBounds(105, 23, 169, 30);
40 panel1.add(textUsername);
41
42 JLabel lblPassword = new JLabel("Password");
43 lblPassword.setBounds(22, 64, 80, 16);
44 panel1.add(lblPassword);
45 JPasswordField textPassword = new JPasswordField();
46 textPassword.setBounds(105, 64, 169, 30);
47 panel1.add(textPassword);
48
49 JCheckBox chkRemember = new JCheckBox("Remember password ?", true);
50 chkRemember.setBounds(105, 100, 169, 40);
51 panel1.add(chkRemember);
52
53 JButton btnRegister = new JButton("Register");
54 btnRegister.setBounds(105, 150, 95, 40);
55 btnRegister.addActionListener(new ActionListener() {
56     @Override
57     public void actionPerformed(ActionEvent e) {
58         // Open a new frame for user registration
59         JFrame registerFrame = new JFrame("Register");
60         registerFrame.setSize(300, 300);
61     }
62 })
```



eclipse-workspace - PBO-222310054-Pembelajaran-8/src/main/java/com/ibik/pbo/Pembelajaran/Form.java - Eclipse IDE

```
File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer
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Gui_Swing2
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latihan09
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my-app
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PBO-222310031-MAVEN
PBO-222310054-MAVEN
PBO-222310054-pembelajaran-7
PBO-222310054-Pembelajaran-8
src/main/java
  com.ibik.pbo.Pembelajaran
    App.java
    Form.java
    Login.java
    MovingImage.java
    Register.java
    TicTacToe.java
  src/main/resources
  src/test/java
  src/test/resources
  JRE System Library [CDC-1.0/Foundation 1.7]
  JRE System Library [JavaSE-1.7]

121 JOptionPane.showMessageDialog(frame, "Data Anda adalah:\n" + registrationData, "Registration Data", JOptionPane.INFORMATION_MESSAGE);
122 registerFrame.dispose(); // Close the registration frame
123 }
124 }
125 registerPanel.add(btnRegisterSubmit);
126 }
127 registerFrame.setVisible(true);
128 }
129 }
130 panel1.add(btnRegister);
131 }
132 JButton btnLogin = new JButton("Login");
133 btnLogin.setBounds(215, 150, 95, 40);
134 btnLogin.addActionListener(new ActionListener() {
135     @Override
136     public void actionPerformed(ActionEvent e) {
137         String email = textUsername.getText();
138         String password = new String(textPassword.getPassword());
139
140         // Check if any field is empty
141         if (email.isEmpty() || password.isEmpty()) {
142             JOptionPane.showMessageDialog(frame, "Silahkan mengisi data dengan benar", "Error", JOptionPane.ERROR_MESSAGE);
143         } else if (!email.equals("222310054@student.ibik.ac.id") || !password.equals("222310054")) {
144             // Check if the email and password match the specified values
145             JOptionPane.showMessageDialog(frame, "Data yang anda masukan salah", "Error", JOptionPane.ERROR_MESSAGE);
146         } else {
147             // If all conditions are met, display a welcome message
148             JOptionPane.showMessageDialog(frame, "Selamat Datang " + email, "Data ditemukan", JOptionPane.INFORMATION_MESSAGE);
149
150             // Open a new frame for the additional information
151             JFrame additionalInfoFrame = new JFrame("FORM PENILAIAN MAHASISWA");
152             additionalInfoFrame.setSize(300, 200);
153             JPanel additionalInfoPanel = new JPanel();
154             additionalInfoPanel.setLayout(new FlowLayout());
155             additionalInfoFrame.add(additionalInfoPanel);
156
157             //Data or Information Variables
158             String [][]Informasi = {
159                 {"NPM", "Nama", "Score"}
160             };
161             //Main Panel
162             JPanel MainPanel = new JPanel(new BorderLayout());
163
164             //Menu Bar
165             JMenuBar MenuBar = new JMenuBar();
166
167             JMenu fileMenu = new JMenu("File");
168             JMenu editMenu = new JMenu("Edit");
169             JMenu helpMenu = new JMenu("Help");
170
171             MenuBar.add(fileMenu);
172             MenuBar.add(editMenu);
173             MenuBar.add(helpMenu);
174
175             JMenuItem item1 = new JMenuItem("New");
176             JMenuItem item2 = new JMenuItem("Save");
177             JMenuItem item3 = new JMenuItem("Exit");
178
179             fileMenu.add(item1);
180             fileMenu.add(item2);
```

eclipse-workspace - PBO-222310054-Pembelajaran-8/src/main/java/com/ibik/pbo/Pembelajaran/Form.java - Eclipse IDE

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  src/test/java
  src/test/resources
  JRE System Library [CDC-1.0/Foundation 1.7]
  JRE System Library [JavaSE-1.7]

150 // Open a new frame for the additional information
151 JFrame additionalInfoFrame = new JFrame("FORM PENILAIAN MAHASISWA");
152 additionalInfoFrame.setSize(300, 200);
153 JPanel additionalInfoPanel = new JPanel();
154 additionalInfoPanel.setLayout(new FlowLayout());
155 additionalInfoFrame.add(additionalInfoPanel);
156
157 //Data or Information Variables
158 String [][]Informasi = {
159     {"NPM", "Nama", "Score"}
160 };
161 //Main Panel
162 JPanel MainPanel = new JPanel(new BorderLayout());
163
164 //Menu Bar
165 JMenuBar MenuBar = new JMenuBar();
166
167 JMenu fileMenu = new JMenu("File");
168 JMenu editMenu = new JMenu("Edit");
169 JMenu helpMenu = new JMenu("Help");
170
171 MenuBar.add(fileMenu);
172 MenuBar.add(editMenu);
173 MenuBar.add(helpMenu);
174
175 JMenuItem item1 = new JMenuItem("New");
176 JMenuItem item2 = new JMenuItem("Save");
177 JMenuItem item3 = new JMenuItem("Exit");
178
179 fileMenu.add(item1);
180 fileMenu.add(item2);
```

```
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  JRE System Library [JavaSE-1.7]

180 fileMenu.add(item3);
181
182 frame.setJMenuBar(MenuBar);
183 additionalInfoPanel.add(MenuBar);
184
185 //Title Panel
186 JPanel TitlePanel = new JPanel(new FlowLayout());
187 JLabel Title = new JLabel("FORM PENGISIAN MATAKULIAH PBO");
188 TitlePanel.add(Title);
189 MainPanel.add(TitlePanel, BorderLayout.NORTH);
190
191 //DataPanel (Main panel for Form and Table)
192 JPanel DataPanel = new JPanel(new GridLayout(1,2));
193
194 //Input Form Sub-Panel
195 JPanel FormPanel = new JPanel();
196 FormPanel.setLayout(null);
197
198 JLabel NPM = new JLabel ("NPM");
199 NPM.setBounds(20,20,100,30);
200 getNPM = new JTextField();
201 getNPM.setBounds(20,50,350,30);
202
203 JLabel Nama = new JLabel ("Nama");
204 Nama.setBounds(20,100,100,30);
205 getNama = new JTextField();
206 getNama.setBounds(20,130,350,30);
207
208 //Radio Buttons for "Nilai"
209 JLabel Nilai = new JLabel ("Nilai");
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eclipse-workspace - PBO-222310054-Pembelajaran-8/src/main/java/com/ibik/pbo/Pembelajaran/Form.java - Eclipse IDE
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  src/test/java
  src/test/resources
  JRE System Library [CDC-1.0/Foundation 1.7]
  JRE System Library [JavaSE-1.7]

236 JButton Clear = new JButton("Clear");
237 Clear.setBounds(260,260,110,50);
238
239 //Add all element for Form into FormPanel
240 FormPanel.add(NPM);
241 FormPanel.add(getNPM);
242 FormPanel.add>Nama);
243 FormPanel.add(getNama);
244 FormPanel.add(Nilai);
245 FormPanel.add(NilaiA);
246 FormPanel.add(NilaiB);
247 FormPanel.add(NilaiC);
248 FormPanel.add(NilaiD);
249 FormPanel.add(NilaiE);
250 FormPanel.add(NilaiF);
251 FormPanel.add(Save);
252 FormPanel.add>Delete);
253 FormPanel.add(Clear);
254 DataPanel.add(FormPanel);
255
256 //Table Panel
257 JPanel TablePanel = new JPanel();
258 DataPanel.add(TablePanel);
259 JTable table = new JTable(Informasi,Column);
260 JScrollPane scroll = new JScrollPane(table);
261 TablePanel.add(scroll);
262 DataPanel.add(TablePanel);
263
264 //Input Data Panel to Main panel and Main panel to Frame.
265 MainPanel.add(DataPanel, BorderLayout.CENTER);
266 additionalInfoPanel.add(MainPanel);
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eclipse-workspace - PBO-222310054-Pembelajaran-8/src/main/java/com/ibik/pbo/Pembelajaran/Form.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

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PBO-222310031-MAVEN
PBO-222310054-MAVEN
PBO-222310054-pembelajaran-7
PBO-222310054-Pembelajaran-8
  src/main/java
    com.ibik.pbo.Pembelajaran
      App.java
      Form.java
      Login.java
      MovingImage.java
      Register.java
      TicTacToe.java
    src/main/resources
  src/test/java
  src/test/resources
  JRE System Library [CDC-1.0/Foundation 1.7]
  JRE System Library [JavaSE-1.7]

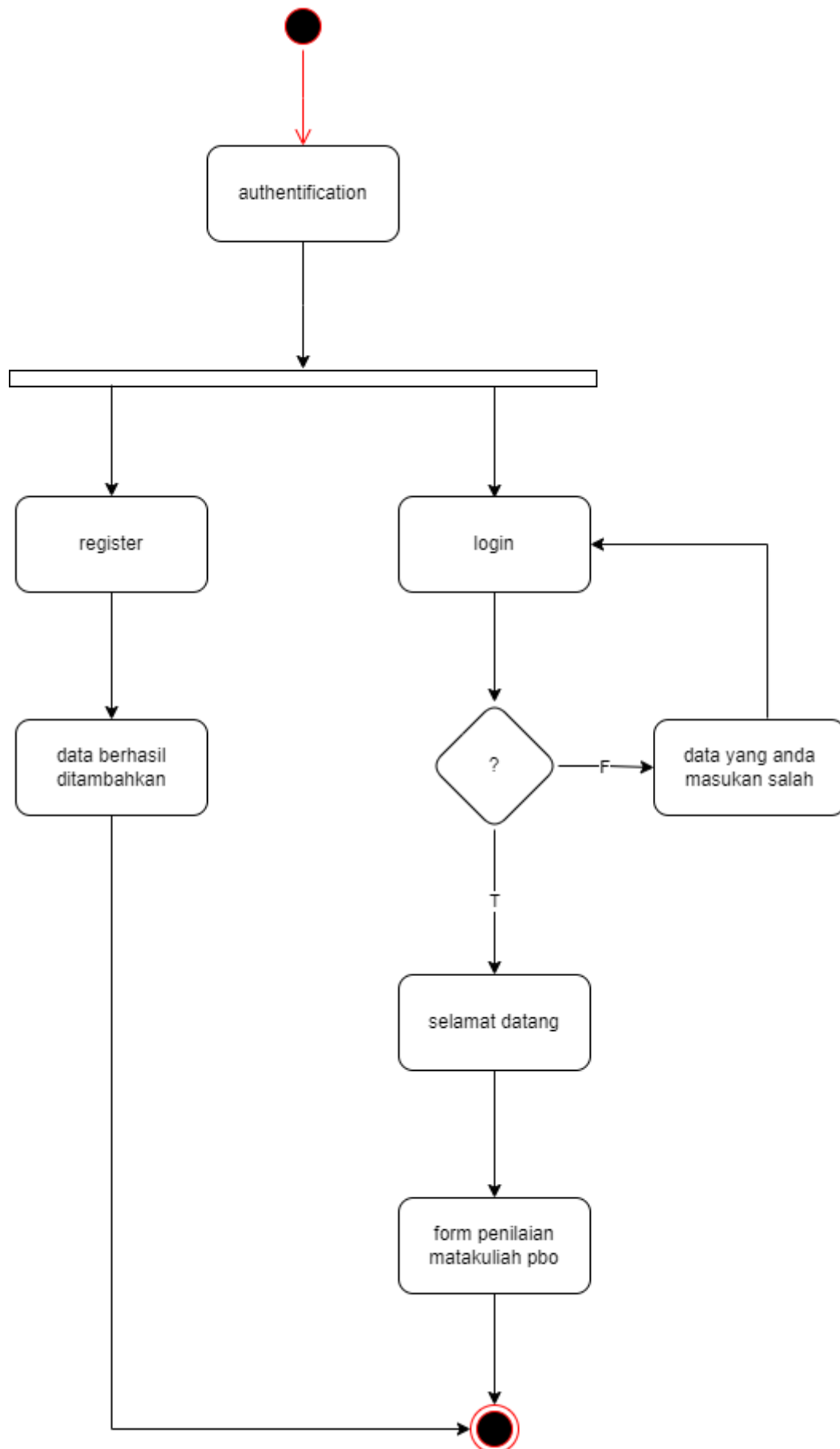
264 //Input Data Panel to Main panel and Main panel to Frame.
265 MainPanel.add(DataPanel, BorderLayout.CENTER);
266 additionalInfoPanel.add(MainPanel);
267
268
269 JButton btnOK = new JButton("OK");
270 btnOK.addActionListener(new ActionListener() {
271     @Override
272     public void actionPerformed(ActionEvent e) {
273         additionalInfoFrame.dispose(); // Close the additional information frame
274     }
275 });
276 additionalInfoPanel.add(btnOK);
277
278 additionalInfoFrame.setVisible(true);
279
280 }
281 });
282
283 panel1.add(btnLogin);
284
285 JLabel lblCopyright = new JLabel("copyright IBIK © 2022", SwingConstants.CENTER);
286 lblCopyright.setBackground(Color.BLUE);
287 lblCopyright.setSize(300, 50);
288 mainPanel.add(lblCopyright, BorderLayout.SOUTH);
289
290 frame.add(panel1);
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```
C:\PBO-222310054-Pembelajaran-8>mvn exec:java -Dexec.mainClass="com.ibik.pbo.Pembelajaran.Form"
[INFO] Scanning for projects...
[INFO]
[INFO] -----< com.ibik.pbo.Pembelajaran:PBO-222310054-Pembelajaran-8 >-----
[INFO] Building PBO-222310054-Pembelajaran-8 1.0-SNAPSHOT
[INFO] from pom.xml
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- exec:3.1.0:java (default-cli) @ PBO-222310054-Pembelajaran-8 ---
```

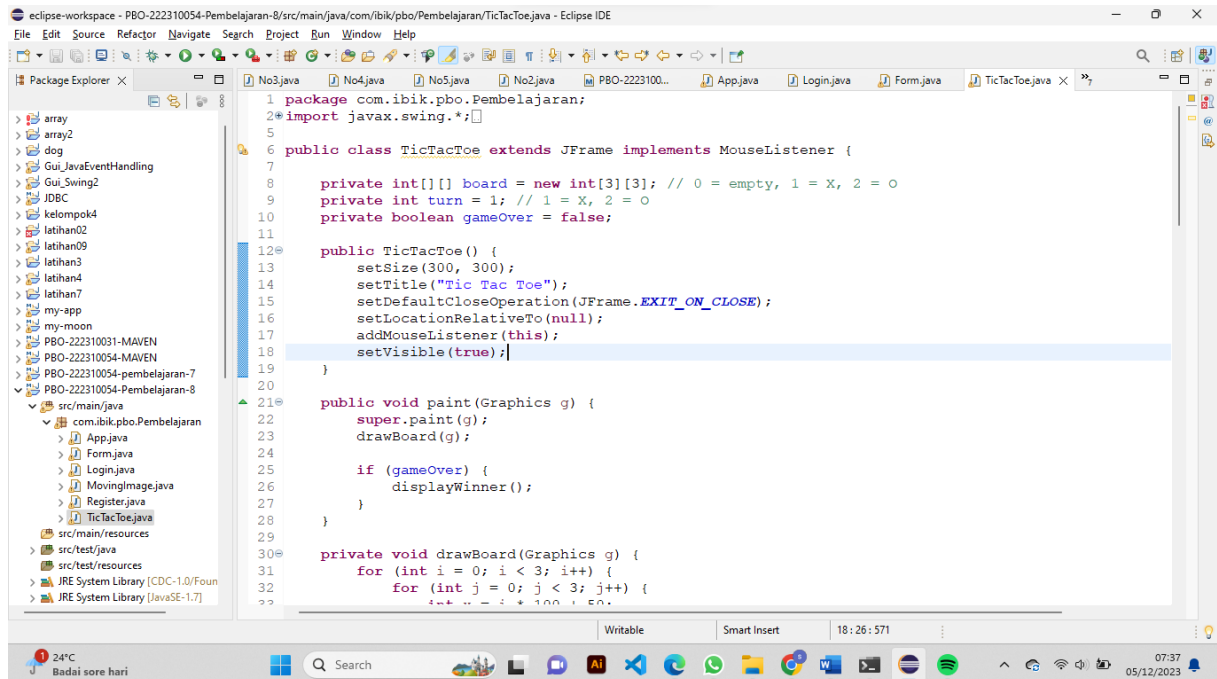
[illegible]

Dibagian menubar nya saya sudah berusaha untuk memindahkan posisi tersebut tetapi saya belum bisa.

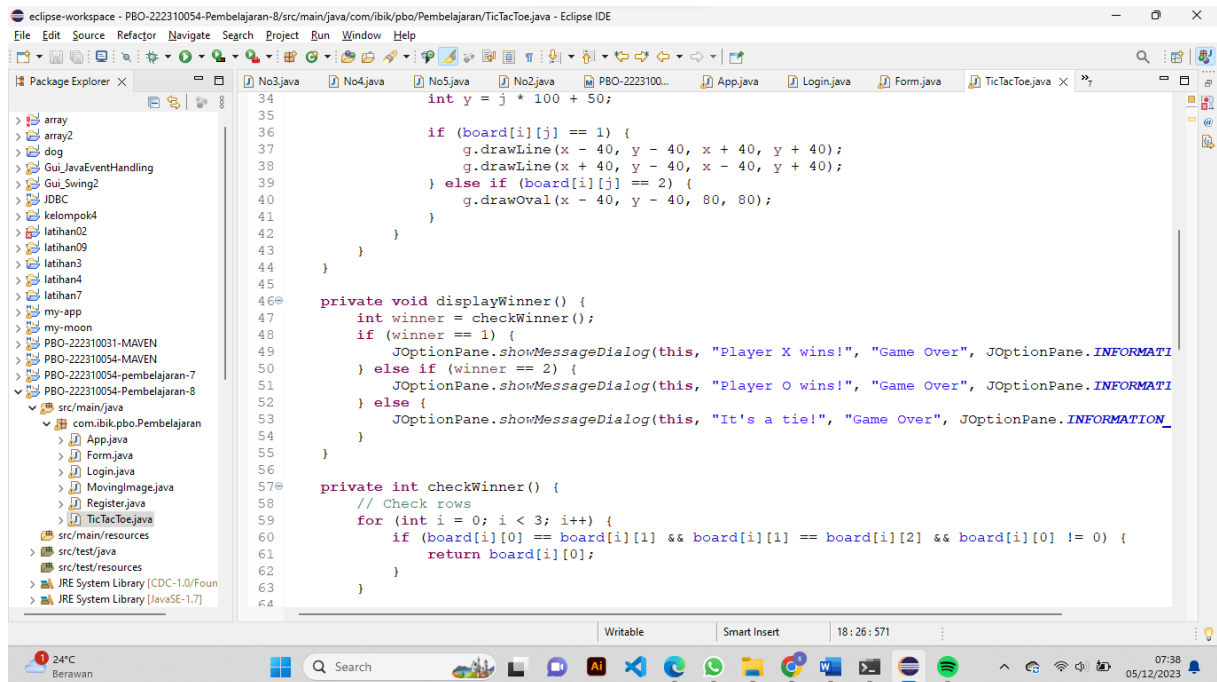
No3



No4



```
1 package com.ibik.pbo.Pembelajaran;
2 import javax.swing.*;
3
4 public class TicTacToe extends JFrame implements ActionListener {
5
6     private int[][] board = new int[3][3]; // 0 = empty, 1 = X, 2 = O
7     private int turn = 1; // 1 = X, 2 = O
8     private boolean gameOver = false;
9
10    public TicTacToe() {
11        setSize(300, 300);
12        setTitle("Tic Tac Toe");
13        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
14        setLocationRelativeTo(null);
15        addMouseListener(this);
16        setVisible(true);
17    }
18
19    public void paint(Graphics g) {
20        super.paint(g);
21        drawBoard(g);
22
23        if (gameOver) {
24            displayWinner();
25        }
26    }
27
28    private void drawBoard(Graphics g) {
29        for (int i = 0; i < 3; i++) {
30            for (int j = 0; j < 3; j++) {
31                int x = j * 100 + 50;
32                int y = i * 100 + 50;
```



```
33                int y = j * 100 + 50;
34
35                if (board[i][j] == 1) {
36                    g.drawLine(x - 40, y - 40, x + 40, y + 40);
37                    g.drawLine(x + 40, y - 40, x - 40, y + 40);
38                } else if (board[i][j] == 2) {
39                    g.drawOval(x - 40, y - 40, 80, 80);
40                }
41            }
42        }
43    }
44
45    private void displayWinner() {
46        int winner = checkWinner();
47        if (winner == 1) {
48            JOptionPane.showMessageDialog(this, "Player X wins!", "Game Over", JOptionPane.INFORMATION_MESSAGE);
49        } else if (winner == 2) {
50            JOptionPane.showMessageDialog(this, "Player O wins!", "Game Over", JOptionPane.INFORMATION_MESSAGE);
51        } else {
52            JOptionPane.showMessageDialog(this, "It's a tie!", "Game Over", JOptionPane.INFORMATION_MESSAGE);
53        }
54    }
55
56    private int checkWinner() {
57        // Check rows
58        for (int i = 0; i < 3; i++) {
59            if (board[i][0] == board[i][1] && board[i][1] == board[i][2] && board[i][0] != 0) {
60                return board[i][0];
61            }
62        }
63    }
64}
```

```

64
65     // Check columns
66     for (int j = 0; j < 3; j++) {
67         if (board[0][j] == board[1][j] && board[1][j] == board[2][j] && board[0][j] != 0) {
68             return board[0][j];
69         }
70     }
71
72     // Check diagonals
73     if (board[0][0] == board[1][1] && board[1][1] == board[2][2] && board[0][0] != 0) {
74         return board[0][0];
75     }
76
77     if (board[0][2] == board[1][1] && board[1][1] == board[2][0] && board[0][2] != 0) {
78         return board[0][2];
79     }
80
81     // Check for a tie
82     for (int i = 0; i < 3; i++) {
83         for (int j = 0; j < 3; j++) {
84             if (board[i][j] == 0) {
85                 return 0; // The game is not over yet
86             }
87         }
88     }
89
90     return -1; // It's a tie
91 }
92
93 public void mouseClicked(MouseEvent e) {
94     if (gameOver) {

```

```

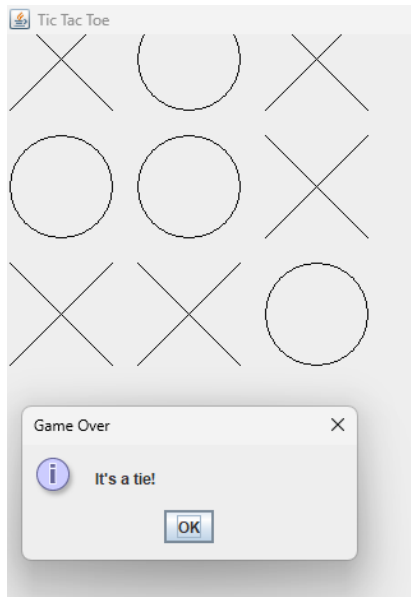
93 public void mouseClicked(MouseEvent e) {
94     if (gameOver) {
95         return;
96     }
97
98     int x = e.getX() / 100;
99     int y = e.getY() / 100;
100
101     if (board[x][y] == 0) {
102         board[x][y] = turn;
103         turn = (turn == 1) ? 2 : 1;
104         repaint();
105
106         int winner = checkWinner();
107         if (winner != 0) {
108             gameOver = true;
109             repaint();
110             displayWinner();
111         }
112     }
113 }
114
115 // Other MouseListener methods (mousePressed, mouseReleased, mouseEntered, mouseExited)
116 public void mousePressed(MouseEvent e) {}
117 public void mouseReleased(MouseEvent e) {}
118 public void mouseEntered(MouseEvent e) {}
119 public void mouseExited(MouseEvent e) {}
120
121 public static void main(String[] args) {
122     new TicTacToe();

```

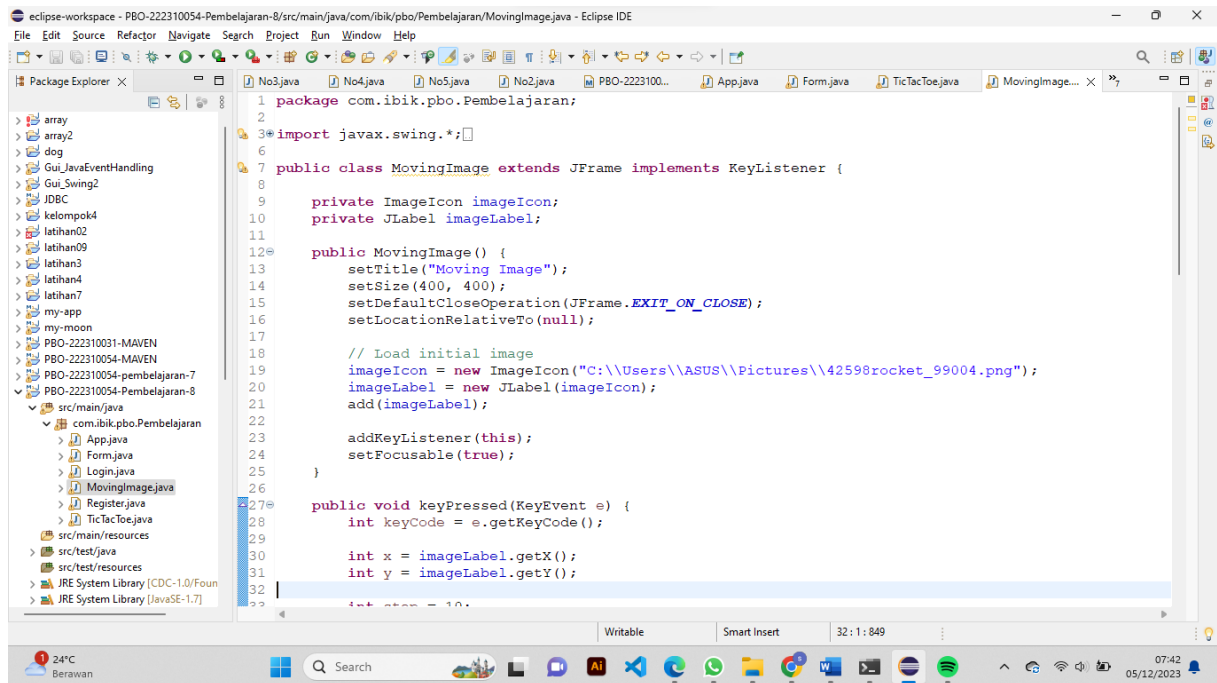
```

C:\PBO-222310054-Pembelajaran-8>mvn exec:java -Dexec.mainClass="com.ibik.pbo.Pembelajaran.TicTacToe"
[INFO] Scanning for projects...
[INFO] -----< com.ibik.pbo.Pembelajaran:PBO-222310054-Pembelajaran-8 >-----
[INFO] Building PBO-222310054-Pembelajaran-8 1.0-SNAPSHOT
[INFO] from pom.xml
[INFO] -----[ jar ]-----
[INFO] --- exec:3.1.0:java (default-cli) @ PBO-222310054-Pembelajaran-8 ---

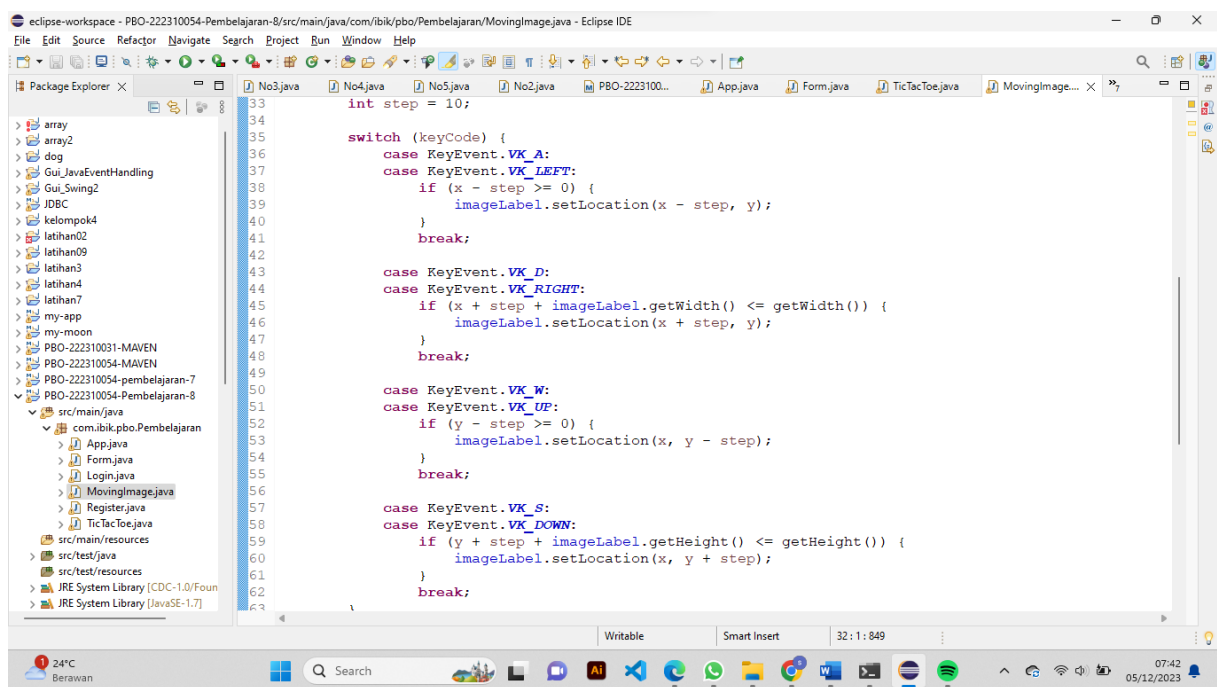
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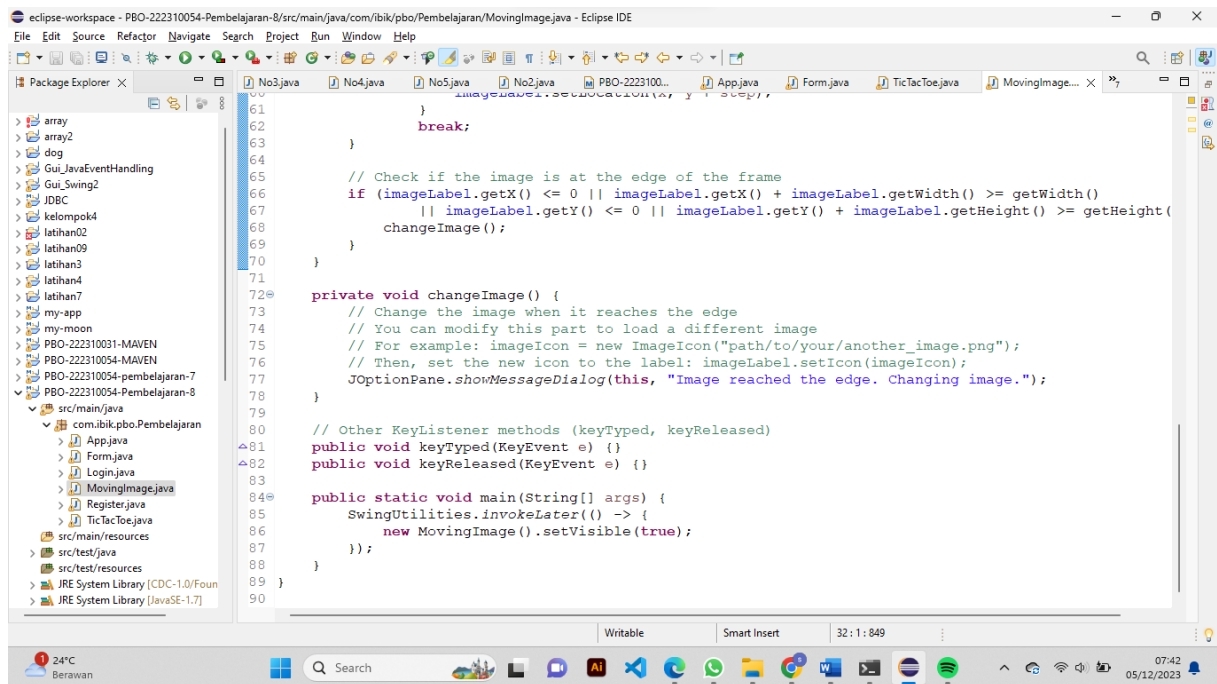
No5



```
1 package com.ibik.pbo.Pembelajaran;
2
3 import javax.swing.*;
4
5
6
7 public class MovingImage extends JFrame implements KeyListener {
8
9     private ImageIcon imageIcon;
10    private JLabel imageLabel;
11
12    public MovingImage() {
13        setTitle("Moving Image");
14        setSize(400, 400);
15        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
16        setLocationRelativeTo(null);
17
18        // Load initial image
19        imageIcon = new ImageIcon("C:\\Users\\ASUS\\Pictures\\42598rocket_99004.png");
20        imageLabel = new JLabel(imageIcon);
21        add(imageLabel);
22
23        addKeyListener(this);
24        setFocusable(true);
25    }
26
27    public void keyPressed(KeyEvent e) {
28        int keyCode = e.getKeyCode();
29
30        int x = imageLabel.getX();
31        int y = imageLabel.getY();
32
33        int step = 10;
```



```
33        int step = 10;
34
35        switch (keyCode) {
36            case KeyEvent.VK_A:
37            case KeyEvent.VK_LEFT:
38                if (x - step >= 0) {
39                    imageLabel.setLocation(x - step, y);
40                }
41                break;
42
43            case KeyEvent.VK_D:
44            case KeyEvent.VK_RIGHT:
45                if (x + step + imageLabel.getWidth() <= getWidth()) {
46                    imageLabel.setLocation(x + step, y);
47                }
48                break;
49
50            case KeyEvent.VK_W:
51            case KeyEvent.VK_UP:
52                if (y - step >= 0) {
53                    imageLabel.setLocation(x, y - step);
54                }
55                break;
56
57            case KeyEvent.VK_S:
58            case KeyEvent.VK_DOWN:
59                if (y + step + imageLabel.getHeight() <= getHeight()) {
60                    imageLabel.setLocation(x, y + step);
61                }
62                break;
63        }
```



```

C:\PBO-222310054-Pembelajaran-8>mvn exec:java -Dexec.mainClass="com.ibik.pbo.Pembelajaran.MovingImage"
[INFO] Scanning for projects...
[INFO]
[INFO] -----< com.ibik.pbo.Pembelajaran:PBO-222310054-Pembelajaran-8 >-----
[INFO] Building PBO-222310054-Pembelajaran-8 1.0-SNAPSHOT
[INFO] from pom.xml
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- exec:3.1.0:java (default-cli) @ PBO-222310054-Pembelajaran-8 ---

```

