package lastalprok;

import javax.swing.\*;

import java.awt.event.\*;

import java.awt.\*;

public class Lastalprok extends JFrame implements ActionListener {

private JTextField inputField;

private JButton hitungButton;

private JLabel hasilLabel;

public static void main(String[] args) {

SwingUtilities.invokeLater(() -> {

new Lastalprok();

});

}

public Lastalprok () {

setTitle("Faktorial");

setSize(500, 300);

setDefaultCloseOperation(EXIT\_ON\_CLOSE);

setLocationRelativeTo(null);

setResizable(false);

JPanel panel = new JPanel();

inputField = new JTextField(10);

inputField.setPreferredSize(new Dimension(100, 30));

hitungButton = new JButton("Hitung");

hasilLabel = new JLabel("Hasil:");

hitungButton.addActionListener(this);

panel.add(new JLabel("Masukkan bilangan: "));

panel.add(inputField);

JPanel buttonPanel = new JPanel();

buttonPanel.add(hitungButton);

panel.add(buttonPanel);

panel.add(hasilLabel);

add(panel);

setVisible(true);

}

public void actionPerformed(ActionEvent e) {

if (e.getSource() == hitungButton) {

try {

int bilangan = Integer.parseInt(inputField.getText());

if (bilangan < 0) {

JOptionPane.showMessageDialog(this, "Masukkan bilangan positif!");

return;

}

long hasil = hitungFaktorial(bilangan);

hasilLabel.setText("Hasil: " + hasil);

} catch (NumberFormatException ex) {

JOptionPane.showMessageDialog(this, "Masukkan bilangan yang valid!");

}

}

}

private long hitungFaktorial(int n) {

if (n == 0 || n == 1) {

return 1;

}

long faktorial = 1;

for (int i = 2; i <= n; i++) {

faktorial \*= i;

}

return faktorial;

}

private void setResizeable(boolean b) {

throw new UnsupportedOperationException("Not supported yet."); // Generated from nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBody

}

}