H17 Oefening 2

**package** be.pxl.h17.oef3;

**import** java.awt.BorderLayout;

**import** java.awt.GridLayout;

**import** java.awt.event.ActionEvent;

**import** java.awt.event.ActionListener;

**import** javax.swing.JButton;

**import** javax.swing.JComboBox;

**import** javax.swing.JFrame;

**import** javax.swing.JPanel;

**import** javax.swing.JTextField;

**public** **class** SymbolenFrame **extends** JFrame {

**private** **final** **static** **char**[] ***SYMBOLEN*** = { 'a', 'b', 'c', 'd', '+', '"' };

**private** **final** **static** String ***VERDUBBEL*** = "verdubbel";

**private** **final** **static** String ***WIS*** = "wis";

**private** **final** **static** String ***HOOFDLETTERS*** = "hoofdletters";

**private** **final** **static** String[] ***OPTIES*** = { ***VERDUBBEL***, ***WIS***, ***HOOFDLETTERS*** };

**private** **final** **static** **int** ***AANTALRIJEN*** = 3;

**private** JButton[] symboolButtons;

**private** JButton okButton;

**private** JComboBox<String> actieComboBox;

**private** JTextField textField;

**public** SymbolenFrame() {

initComponents();

layoutComponents();

initListeners();

}

**private** **void** initComponents() {

okButton = **new** JButton("ok");

symboolButtons = **new** JButton[***SYMBOLEN***.length];

**for** (**int** i = 0; i < symboolButtons.length; i++) {

symboolButtons[i] = **new** JButton(String.*valueOf*(***SYMBOLEN***[i]));

symboolButtons[i].setActionCommand(String.*valueOf*(***SYMBOLEN***[i]));

}

actieComboBox = **new** JComboBox<>(***OPTIES***);

textField = **new** JTextField();

textField.setEditable(**false**);

setDefaultCloseOperation(***EXIT\_ON\_CLOSE***);

setSize(230, 150);

setLocationByPlatform(**true**);

setVisible(**true**);

}

**private** **void** layoutComponents() {

JPanel buttonPanel = **new** JPanel(**new** GridLayout(***AANTALRIJEN***,

***SYMBOLEN***.length / ***AANTALRIJEN***));

**for** (**int** i = 0; i < symboolButtons.length; i++) {

buttonPanel.add(symboolButtons[i]);

}

JPanel actiePanel = **new** JPanel(**new** GridLayout(2, 1));

actiePanel.add(actieComboBox);

actiePanel.add(okButton);

add(textField, BorderLayout.***NORTH***);

add(buttonPanel, BorderLayout.***CENTER***);

add(actiePanel, BorderLayout.***EAST***);

}

**private** **void** initListeners() {

**for** (JButton symboolButton : symboolButtons) {

symboolButton.addActionListener(**new** ActionListener() {

@Override

**public** **void** actionPerformed(ActionEvent event) {

textField.setText(textField.getText() + event.getActionCommand());

}

});

}

okButton.addActionListener(**new** ActionListener() {

@Override

**public** **void** actionPerformed(ActionEvent e) {

**if** (actieComboBox.getSelectedItem().equals(***VERDUBBEL***)) {

textField.setText(textField.getText() + textField.getText());

} **else** **if** (actieComboBox.getSelectedItem().equals(***WIS***)) {

textField.setText("");

} **else** **if** (actieComboBox.getSelectedItem().equals(***HOOFDLETTERS***)) {

textField.setText(textField.getText().toUpperCase());

}

}

});

}

**public** **static** **void** main(String[] args) {

**new** SymbolenFrame();

}

}