**Standar Calculator**

Hocam buraya kadar geldim ama bundan sonrası için sıkıştım nasıl yapacağımı bilemedim ☹

**import** java.awt.\*;

**import** java.awt.event.\*;

**import** java.util.ArrayList;

**import** javax.swing.\*;

**public** **class** Calculator **extends** JFrame **implements** ActionListener {

**private** JButton[] buttons;

**private** JTextField myTextField;

**private** JPanel mainPanel, gridPanel;

**private** String[] buttonName = { "%", "Sin", "C", "Geri Al", "1/x", "x^2", "Kare Kök", "/", "7", "8", "9", "\*", "4",

"5", "6", "-", "1", "2", "3", "+", "+/-", "0", ",", "=" };

**private** Font f = **new** Font("Verdana", Font.***BOLD***, 64);

**private** ArrayList<String> islemArray = **new** ArrayList<String>();

**private** ArrayList<String> sayiArray = **new** ArrayList<String>();

**private** **int** result = 0;

**public** Calculator() {

**super**("Hesap makinesi");

mainPanel = **new** JPanel();

gridPanel = **new** JPanel();

mainPanel.setLayout(**new** GridLayout(2, 1));

gridPanel.setLayout(**new** GridLayout(6, 4));

myTextField = **new** JTextField("" + result);

myTextField.setEnabled(**false**);

myTextField.setHorizontalAlignment(JTextField.***RIGHT***);

myTextField.setFont(f);

add(mainPanel);

mainPanel.add(myTextField);

buttons = **new** JButton[24];

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

buttons[i] = **new** JButton(buttonName[i]);

gridPanel.add(buttons[i]);

buttons[i].addActionListener(**this**);

}

mainPanel.add(gridPanel);

setSize(500, 500);

setLocationRelativeTo(**null**);

setVisible(**true**);

}

**public** **void** showLastArray() {

**if** (sayiArray.isEmpty()) {

myTextField.setText("0");

} **else** {

String myNum = "";

**for** (String item : sayiArray) {

myNum += item;

}

myTextField.setText(myNum);

}

}

**public** **void** addNumİslem() {

String myNum = "";

**for** (String item : sayiArray) {

myNum += item;

}

islemArray.add(myNum);

sayiArray.clear();

showLastArray();

}

**public** **boolean** isZero() {

**if** (sayiArray.get(0).equals("0")) {

**return** **true**;

} **else** {

**return** **false**;

}

}

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

**new** Calculator();

}

**public** **void** calculate() {

**int** num = 0;

**if** (islemArray.get(1).equals("+")) {

num = Integer.*parseInt*(islemArray.get(0)) + Integer.*parseInt*(islemArray.get(2));

} **else** **if** (islemArray.get(1).equals("-")) {

num = Integer.*parseInt*(islemArray.get(0)) - Integer.*parseInt*(islemArray.get(2));

} **else** **if** (islemArray.get(1).equals("\*")) {

num = Integer.*parseInt*(islemArray.get(0)) \* Integer.*parseInt*(islemArray.get(2));

} **else** **if** (islemArray.get(1).equals("/")) {

num = Integer.*parseInt*(islemArray.get(0)) / Integer.*parseInt*(islemArray.get(2));

}

islemArray.clear();

sayiArray.clear();

myTextField.setText("" + num);

}

@Override

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

**switch** (e.getActionCommand()) {

**case** "C":

islemArray.clear();

sayiArray.clear();

showLastArray();

**break**;

**case** "1":

sayiArray.add("1");

showLastArray();

**break**;

**case** "2":

sayiArray.add("2");

showLastArray();

**break**;

**case** "3":

sayiArray.add("3");

showLastArray();

**break**;

**case** "4":

sayiArray.add("4");

showLastArray();

**break**;

**case** "5":

sayiArray.add("5");

showLastArray();

**break**;

**case** "6":

sayiArray.add("6");

showLastArray();

**break**;

**case** "7":

sayiArray.add("7");

showLastArray();

**break**;

**case** "8":

sayiArray.add("8");

showLastArray();

**break**;

**case** "9":

sayiArray.add("9");

showLastArray();

**break**;

**case** "0":

**if** (!isZero()) {

sayiArray.add("0");

showLastArray();

}

**break**;

**case** "+":

addNumİslem();

islemArray.add("+");

**break**;

**case** "-":

addNumİslem();

islemArray.add("-");

**break**;

**case** "\*":

addNumİslem();

islemArray.add("\*");

**break**;

**case** "/":

addNumİslem();

islemArray.add("/");

**break**;

**case** "=":

addNumİslem();

islemArray.add("=");

calculate();

**break**;

**default**:

**throw** **new** IllegalArgumentException("Unexpected value: " + e);

}

}

}

