**Matematical Operations**

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

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

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

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

**private** JTextField[] textFields;

**private** JButton submitButton;

**private** JPanel mainPanel,textFieldsPanel;

**public** MatematicalOperations() {

**super**("Matematical Operations");

mainPanel=**new** JPanel();

textFieldsPanel=**new** JPanel();

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

textFieldsPanel.setLayout(**new** GridLayout(1,5));

submitButton = **new** JButton("Calculate");

submitButton.addActionListener(**this**);

add(mainPanel);

mainPanel.add(textFieldsPanel);

textFields = **new** JTextField[5];

**for** (**int** i=0;i<5;i++) {

textFields[i] = **new** JTextField(5);

textFields[i].setHorizontalAlignment(JTextField.***CENTER***);

textFieldsPanel.add(textFields[i]);

}

textFields[4].setEnabled(**false**);

mainPanel.add(submitButton);

textFieldsPanel.setBackground(Color.***pink***);

mainPanel.setBackground(Color.***pink***);

setBackground(Color.***pink***);

setSize(300,150);

setLocationRelativeTo(**null**);

setVisible(**true**);

}

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

**new** MatematicalOperations();

}

@Override

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

**try** {

**int** number1 = Integer.*parseInt*(textFields[0].getText());

**int** number2 = Integer.*parseInt*(textFields[2].getText());

**int** result = 0;

**switch** (textFields[1].getText() ) {

**case** "+":

result = number1+number2;

**break**;

**case** "-":

result = number1-number2;

**break**;

**case** "\*":

result = number1\*number2;

**break**;

**case** "/":

result = number1/number2;

**break**;

**case** "%":

result = number1%number2;

**break**;

**default**:

**throw** **new** IllegalArgumentException("Unexpected value: " + textFields[1].getText());

}

**if** (textFields[3].getText().equals("=")) {

textFields[4].setText(""+result);

} **else** {

**throw** **new** IllegalArgumentException("Unexpected value: " + textFields[3].getText());

}

} **catch** (IllegalArgumentException excep) {

JOptionPane.*showMessageDialog*(**null**, "Hatalı Giriş // "+excep.getMessage());

}

}

}

