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| **COLLEGE OF ENGINEERING AND TECHNOLOGY**  **BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY**  **FUNDAMENTALS OF PROGRAMMING** | |
| **NAME: ARMILLO, ROUISE ANDREI A.**  **COURSE & SECTION**:**BSIT-13** | Date: \_11/19/23\_\_\_\_\_\_\_\_  Activity Number\_\_\_\_\_\_\_ |

import javax.swing.\*;

import java.awt.\*;

import java.awt.event.\*;

public class MyOwnCalculatorAndrei implements ActionListener{

JFrame frem;

JTextField texpild;

JButton[] numBut = new JButton[10];

JButton[] funcBut = new JButton[9];

JButton addBut, subBut, mulBut, divBut;

JButton decBut, equBut, delBut, clrBut, negBut;

JPanel panil;

Font fonty = new Font("Times New Roman",Font.***BOLD***,30);

double no1=0, no2=0, res=0;

char op;

MyOwnCalculatorAndrei(){

frem = new JFrame("Armillo Calculator");

frem.setDefaultCloseOperation(JFrame.***EXIT\_ON\_CLOSE***);

frem.setSize(420,550);

frem.setLayout(null);

frem.setBackground(Color.***PINK***);

texpild = new JTextField();

texpild.setBounds(50,25,300,50);

texpild.setFont(fonty);

texpild.setEditable(false);

texpild.setBackground(Color.***PINK***);

addBut = new JButton("+");

subBut = new JButton("-");

mulBut = new JButton("\*");

divBut = new JButton("/");

decBut = new JButton(".");

equBut = new JButton("=");

delBut = new JButton("DEL");

clrBut = new JButton("CLR");

negBut = new JButton("(-)");

funcBut[0] = addBut;

funcBut[1] = subBut;

funcBut[2] = mulBut;

funcBut[3] = divBut;

funcBut[4] = decBut;

funcBut[5] = equBut;

funcBut[6] = delBut;

funcBut[7] = clrBut;

funcBut[8] = negBut;

for(int i =0;i<9;i++) {

funcBut[i].addActionListener(this);

funcBut[i].setFont(fonty);

funcBut[i].setFocusable(false);

}

for(int i =0;i<10;i++) {

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

numBut[i].addActionListener(this);

numBut[i].setFont(fonty);

numBut[i].setFocusable(false);

}

negBut.setBounds(50, 430, 100, 50);

delBut.setBounds(150,430,100,50);

clrBut.setBounds(250,430,100,50);

panil = new JPanel();

panil.setBounds(50,100,300,300);

panil.setLayout(new GridLayout(4,4,10,10));

panil.setBackground(Color.***PINK***);

panil.add(numBut[1]);

panil.add(numBut[2]);

panil.add(numBut[3]);

panil.add(addBut);

panil.add(numBut[4]);

panil.add(numBut[5]);

panil.add(numBut[6]);

panil.add(subBut);

panil.add(numBut[7]);

panil.add(numBut[8]);

panil.add(numBut[9]);

panil.add(mulBut);

panil.add(decBut);

panil.add(numBut[0]);

panil.add(equBut);

panil.add(divBut);

frem.add(panil);

frem.add(negBut);

frem.add(delBut);

frem.add(clrBut);

frem.add(texpild);

frem.setVisible(true);

}

public static void main(String[] args) {

MyOwnCalculatorAndrei calcy = new MyOwnCalculatorAndrei();

}

*@Override*

public void actionPerformed(ActionEvent e) {

for (int i=0;i<10;i++) {

if(e.getSource() == numBut[i]) {

texpild.setText(texpild.getText().concat(String.*valueOf*(i)));

}

}

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

texpild.setText(texpild.getText().concat("."));

}

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

no1 = Double.*parseDouble*(texpild.getText());

op = '+';

texpild.setText("");

}

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

no1 = Double.*parseDouble*(texpild.getText());

op = '-';

texpild.setText("");

}

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

no1 = Double.*parseDouble*(texpild.getText());

op = '\*';

texpild.setText("");

}

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

no1 = Double.*parseDouble*(texpild.getText());

op = '/';

texpild.setText("");

}

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

no2 = Double.*parseDouble*(texpild.getText());

switch(op) {

case '+':

res=no1+no2;

break;

case '-':

res=no1-no2;

break;

case '\*':

res=no1\*no2;

break;

case '/':

res=no1/no2;

break;

}

texpild.setText(String.*valueOf*(res));

no1=res;

}

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

texpild.setText("");

}

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

String adei = texpild.getText();

texpild.setText("");

for (int i=0;i<adei.length()-1;i++) {

texpild.setText(texpild.getText()+adei.charAt(i));

}

}

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

double temp = Double.*parseDouble*(texpild.getText());

temp\*=-1;

texpild.setText(String.*valueOf*(temp));

}

}

}