Java Assignment

simple interest calculator

Done By

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Program

import java.awt.\*;

import java.awt.event.\*;

import java.awt.event.ActionListener;

import javax.swing.\*;

import javax.swing.border.TitledBorder;

public class SIC extends JFrame {

private JTextField principal = new JTextField();

private JTextField rate = new JTextField();

private JTextField time = new JTextField();

private JTextField simpleInterest = new JTextField();

private JButton clear = new JButton("Clear");

private JButton calculate = new JButton("Calculate");

JTextArea area = new JTextArea(1, 1);

public SIC() {

JPanel panel1 = new JPanel(new GridLayout(5, 5));

panel1.add(new JLabel("Enter Principal"));

panel1.add(principal);

panel1.add(new JLabel("Enter Rate"));

panel1.add(rate);

panel1.add(new JLabel("Enter Time"));

panel1.add(time);

panel1.add(new JLabel("Simple Interest"));

panel1.add(simpleInterest);

panel1.setBorder(new TitledBorder("Enter The Principal, Rate and Time :"));

principal.setBorder(BorderFactory.createEtchedBorder());

rate.setBorder(BorderFactory.createEtchedBorder());

time.setBorder(BorderFactory.createEtchedBorder());

simpleInterest.setBorder(BorderFactory.createEtchedBorder());

simpleInterest.setEditable(false);

simpleInterest.setForeground(Color.RED);

JPanel panel2 = new JPanel(new FlowLayout(FlowLayout.RIGHT));

panel2.add(clear);

panel2.add(calculate);

add(panel1, BorderLayout.CENTER);

add(panel2, BorderLayout.SOUTH);

area.setForeground(Color.BLACK);

area.setBackground(Color.WHITE);

area.setLineWrap(true);

area.setWrapStyleWord(true);

area.setEditable(false);

calculate.addActionListener(new ActionListener() {

@Override

public void actionPerformed(ActionEvent e) {

try {

double amount = Double.parseDouble(principal.getText());

double rateOfInterest = Double.parseDouble(rate.getText());

double year = Double.parseDouble(time.getText());

String interest = "" + (amount \* rateOfInterest \* year);

simpleInterest.setText((interest));

} catch (Exception f) {

JOptionPane.showMessageDialog(rootPane, "Error: " + (f.getMessage()));

}

String amountField = principal.getText();

String rateOfInterestField = rate.getText();

String yearField = time.getText();

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

if ("".equals(amountField) || "".equals(rateOfInterestField) || "".equals(yearField)) {

String emptyFieldWarning;

emptyFieldWarning = "Empty Feilds !!!";

JOptionPane.showMessageDialog(rootPane, emptyFieldWarning);

}

}

}

});

clear.addActionListener(new ActionListener() {

@Override

public void actionPerformed(ActionEvent e) {

try {

principal.setText("");

rate.setText("");

time.setText("");

simpleInterest.setText("");

} catch (Exception f) {

}

}

});

}

public static void main(String[] args) {

SIC calculator = new SIC();

calculator.setSize(400, 300);

calculator.setTitle(" Akshay's Calculator ");

calculator.setResizable(false);

calculator.setVisible(true);

calculator.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

}

}

OUtput



