import javax.swing.\*;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

import java.text.DecimalFormat;

public class App1 {

private JButton button2;

private JPanel Panel\_1;

private JLabel label1;

private JTextField textField1;

private JTextField textField2;

private JLabel label2;

private JLabel label3;

private JTextField textField3;

public App1() {

button2.addActionListener(new ActionListener() {

@Override

public void actionPerformed(ActionEvent e) {

String principle = textField1.getText();

String annualRate = textField2.getText();

String numberOfMonths = textField3.getText();

double principle1 = Double.parseDouble(principle);

double annualRate1 = Double.parseDouble(annualRate);

double numberOfMonths1 = Double.parseDouble(numberOfMonths);

double monthlyRate = ((annualRate1 / 100) / 12);

double monthlyRatePlus1 = (monthlyRate + 1);

double power1 = Math.pow(monthlyRatePlus1, numberOfMonths1);

double power1timesmonthlyRate = (power1 \* monthlyRate);

double lowerlevel = (power1 - 1);

double dividelevel = (power1timesmonthlyRate / lowerlevel);

double resultM = (principle1 \* dividelevel);

DecimalFormat df = new DecimalFormat("#.##");

String resultM1 = df.format(resultM);

JOptionPane.showMessageDialog(null, "The monthly payment is: $" + resultM1);

}

});

}

public static void main(String[] args) {

JFrame frame1 = new JFrame("Mortgage Calculator");

frame1.setContentPane(new App1().Panel\_1);

frame1.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

frame1.pack();

frame1.setVisible(true);

}

}