import java.awt.EventQueue;

import javax.swing.JFrame;

import javax.swing.JPanel;

import javax.swing.border.BevelBorder;

import javax.swing.JButton;

import java.awt.Color;

import javax.swing.JLabel;

import javax.swing.JOptionPane;

import java.awt.Font;

import javax.swing.JTextField;

import javax.swing.SwingConstants;

import javax.swing.ImageIcon;

import javax.swing.JTextArea;

import java.awt.event.ActionListener;

import java.io.File;

import java.io.FileWriter;

import java.io.IOException;

import java.io.PrintWriter;

import java.util.Calendar;

import java.awt.event.ActionEvent;

public class ATMHBL {

private JFrame frame;

private JTextField textField;

private JTextField txtenter;

private JTextField txtyear;

private JTextField txtloan;

private JTextField txtpay;

private static JTextField txtTotal;

private JButton btnExit;

private JButton btnReset;

private JButton btnRecipt;

private JButton btnLoan;

private JButton btnl,btnw,btnd,btnb;

private JButton jbtn1,jbtn2,jbtn3,jbtn4,jbtn5,jbtn6,jbtn7,jbtn8,jbtn9,jbtn0;

protected java.text.SimpleDateFormat SimpleDateFormat;

static String k3,k2,k1,k;

static int refs;

public static void main(String[] args) {

EventQueue.invokeLater(new Runnable() {

public void run() {

try {

ATMHBL window = new ATMHBL();

window.frame.setVisible(true);

} catch (Exception e) {

e.printStackTrace();

}

}

});

}

public void w()

{

try {

FileWriter myWrite = new FileWriter("C:\\Users\\User\\Desktop\\Recp.txt", true);

PrintWriter p = new PrintWriter(myWrite);

p.println( ("\tLoan Management System\n"+

"Reference:\t\t\t"+ATMHBL.refs+

"\n==============================================\n"+

"\nIntrest rate:\t\t\t `"+ATMHBL.k+

"\nRepayment Year:\t\t\t"+ATMHBL.k1+

"\nAmount of Loan:\t\t\t"+"$"+ATMHBL.k2+

"\nMonthly Payment:\t\t\t"+ATMHBL.k3+

"\nTotal Payment:\t\t\t"+ATMHBL.txtTotal+

"\n============================================="+

"\n\n\nThankyou\n" ) );

p.flush();

p.close();

JOptionPane.showMessageDialog(this.frame, "Successful");

} catch (IOException e1)

{

e1.printStackTrace();

}

}

/\*\*

\* Create the application.

\*/

public ATMHBL() {

initialize();

}

/\*\*

\* Initialize the contents of the frame.

\*/

private void initialize() {

frame = new JFrame();

frame.getContentPane().setBackground(new Color(255, 182, 193));

frame.setBounds(0, 0, 1450, 800);

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

frame.getContentPane().setLayout(null);

JPanel panel = new JPanel();

panel.setBackground(new Color(30, 144, 255));

panel.setBorder(new BevelBorder(BevelBorder.LOWERED, null, null, null, null));

panel.setBounds(10, 11, 117, 135);

frame.getContentPane().add(panel);

panel.setLayout(null);

JButton btnb = new JButton("Enter");

btnb.setEnabled(false);

btnb.setFont(new Font("Tahoma", Font.BOLD, 18));

btnb.setBounds(10, 11, 89, 53);

panel.add(btnb);

JButton btnw = new JButton("Enter");

btnw.setEnabled(false);

btnw.setFont(new Font("Tahoma", Font.BOLD, 18));

btnw.setBounds(10, 75, 89, 53);

panel.add(btnw);

JPanel panel\_1 = new JPanel();

panel\_1.setBackground(new Color(144, 238, 144));

panel\_1.setBorder(new BevelBorder(BevelBorder.LOWERED, null, null, null, null));

panel\_1.setBounds(137, 11, 223, 135);

frame.getContentPane().add(panel\_1);

panel\_1.setLayout(null);

JLabel lblNewLabel = new JLabel("Balance");

lblNewLabel.setFont(new Font("Tahoma", Font.BOLD, 12));

lblNewLabel.setBounds(10, 11, 48, 14);

panel\_1.add(lblNewLabel);

JLabel lblLoan = new JLabel("Loan");

lblLoan.setFont(new Font("Tahoma", Font.BOLD, 12));

lblLoan.setBounds(165, 12, 48, 14);

panel\_1.add(lblLoan);

JLabel lblDeposit = new JLabel("Deposit");

lblDeposit.setFont(new Font("Tahoma", Font.BOLD, 12));

lblDeposit.setBounds(165, 110, 48, 14);

panel\_1.add(lblDeposit);

JLabel lblWithdrawl = new JLabel("Withdrawl");

lblWithdrawl.setFont(new Font("Tahoma", Font.BOLD, 12));

lblWithdrawl.setBounds(10, 109, 87, 14);

panel\_1.add(lblWithdrawl);

textField = new JTextField();

textField.setHorizontalAlignment(SwingConstants.CENTER);

textField.setFont(new Font("Tahoma", Font.BOLD, 14));

textField.setBounds(28, 36, 155, 63);

panel\_1.add(textField);

textField.setColumns(10);

JPanel panel\_2 = new JPanel();

panel\_2.setBackground(new Color(30, 144, 255));

panel\_2.setBorder(new BevelBorder(BevelBorder.LOWERED, null, null, null, null));

panel\_2.setBounds(370, 11, 117, 135);

frame.getContentPane().add(panel\_2);

panel\_2.setLayout(null);

JButton btnl = new JButton("Enter");

btnl.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e) {

btnExit.setEnabled(true);

btnReset.setEnabled(true);

btnRecipt.setEnabled(true);

btnLoan.setEnabled(true);

}

});

btnl.setEnabled(false);

btnl.setFont(new Font("Tahoma", Font.BOLD, 18));

btnl.setBounds(10, 11, 89, 53);

panel\_2.add(btnl);

JButton btnd = new JButton("Enter");

btnd.setEnabled(false);

btnd.setFont(new Font("Tahoma", Font.BOLD, 18));

btnd.setBounds(10, 75, 89, 53);

panel\_2.add(btnd);

JPanel panel\_3 = new JPanel();

panel\_3.setBackground(new Color(238, 232, 170));

panel\_3.setBorder(new BevelBorder(BevelBorder.LOWERED, null, null, null, null));

panel\_3.setBounds(10, 156, 477, 371);

frame.getContentPane().add(panel\_3);

panel\_3.setLayout(null);

JButton jbtn1 = new JButton("1");

jbtn1.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e) {

String E=textField.getText()+"1";

textField.setText(E);

}

});

jbtn1.setFont(new Font("Tahoma", Font.BOLD, 18));

jbtn1.setBounds(10, 23, 89, 53);

panel\_3.add(jbtn1);

JButton jbtn2 = new JButton("2");

jbtn2.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e) {

String E=textField.getText()+"2";

textField.setText(E);

}

});

jbtn2.setFont(new Font("Tahoma", Font.BOLD, 18));

jbtn2.setBounds(109, 23, 89, 53);

panel\_3.add(jbtn2);

JButton jbtn3 = new JButton("3");

jbtn3.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e) {

String E=textField.getText()+"3";

textField.setText(E);

}

});

jbtn3.setFont(new Font("Tahoma", Font.BOLD, 18));

jbtn3.setBounds(208, 23, 89, 53);

panel\_3.add(jbtn3);

JButton btnClear = new JButton("Clear");

btnClear.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e) {

textField.setText("");

}

});

btnClear.setBackground(Color.ORANGE);

btnClear.setFont(new Font("Tahoma", Font.BOLD, 16));

btnClear.setBounds(307, 23, 89, 53);

panel\_3.add(btnClear);

JButton btnCancel = new JButton("Cancel");

btnCancel.setBackground(Color.RED);

btnCancel.setFont(new Font("Tahoma", Font.BOLD, 16));

btnCancel.setBounds(307, 105, 89, 53);

panel\_3.add(btnCancel);

JButton jbtn6 = new JButton("6");

jbtn6.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e) {

String E=textField.getText()+"6";

textField.setText(E);

}

});

jbtn6.setFont(new Font("Tahoma", Font.BOLD, 18));

jbtn6.setBounds(208, 105, 89, 53);

panel\_3.add(jbtn6);

JButton jbtn5 = new JButton("5");

jbtn5.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e) {

String E=textField.getText()+"5";

textField.setText(E);

}

});

jbtn5.setFont(new Font("Tahoma", Font.BOLD, 18));

jbtn5.setBounds(109, 105, 89, 53);

panel\_3.add(jbtn5);

JButton jbtn4 = new JButton("4");

jbtn4.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e) {

String E=textField.getText()+"4";

textField.setText(E);

}

});

jbtn4.setFont(new Font("Tahoma", Font.BOLD, 18));

jbtn4.setBounds(10, 105, 89, 53);

panel\_3.add(jbtn4);

JButton btnEnter = new JButton("Enter");

btnEnter.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e) {

int pin1=Integer.parseInt(textField.getText());

int pin2=Integer.parseInt(textField.getText());

int pin3=Integer.parseInt(textField.getText());

int pin4=Integer.parseInt(textField.getText());

if(pin1 == 1234) {

btnb.setEnabled(true);

btnl.setEnabled(true);

btnw.setEnabled(true);

btnd.setEnabled(true);

btnl.setVisible(true);

btnb.setVisible(true);

btnw.setVisible(true);

btnd.setVisible(true);

}

else if(pin2 == 2341) {

btnb.setEnabled(true);

btnl.setEnabled(true);

btnw.setEnabled(true);

btnd.setEnabled(true);

btnl.setVisible(true);

btnb.setVisible(true);

btnw.setVisible(true);

btnd.setVisible(true);

}

else if(pin3 == 134) {

btnb.setEnabled(true);

btnl.setEnabled(true);

btnw.setEnabled(true);

btnd.setEnabled(true);

btnl.setVisible(true);

btnb.setVisible(true);

btnw.setVisible(true);

btnd.setVisible(true);

}

else if(pin4 == 12345) {

btnb.setEnabled(true);

btnl.setEnabled(true);

btnw.setEnabled(true);

btnd.setEnabled(true);

btnl.setVisible(true);

btnb.setVisible(true);

btnw.setVisible(true);

btnd.setVisible(true);

}

else {

textField.setText("Invalid Pin");

}

}

});

btnEnter.setBackground(Color.GREEN);

btnEnter.setFont(new Font("Tahoma", Font.BOLD, 20));

btnEnter.setBounds(307, 184, 89, 53);

panel\_3.add(btnEnter);

JButton jbtn9 = new JButton("9");

jbtn9.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e) {

String E=textField.getText()+"9";

textField.setText(E);

}

});

jbtn9.setFont(new Font("Tahoma", Font.BOLD, 18));

jbtn9.setBounds(208, 184, 89, 53);

panel\_3.add(jbtn9);

JButton jbtn8 = new JButton("8");

jbtn8.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e) {

String E=textField.getText()+"8";

textField.setText(E);

}

});

jbtn8.setFont(new Font("Tahoma", Font.BOLD, 18));

jbtn8.setBounds(109, 184, 89, 53);

panel\_3.add(jbtn8);

JButton jbtn7 = new JButton("7");

jbtn7.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e) {

String E=textField.getText()+"7";

textField.setText(E);

}

});

jbtn7.setFont(new Font("Tahoma", Font.BOLD, 18));

jbtn7.setBounds(10, 184, 89, 53);

panel\_3.add(jbtn7);

JButton jbtn0 = new JButton("0");

jbtn0.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e) {

String E=textField.getText()+"0";

textField.setText(E);

}

});

jbtn0.setFont(new Font("Tahoma", Font.BOLD, 18));

jbtn0.setBounds(109, 252, 89, 53);

panel\_3.add(jbtn0);

JLabel lblNewLabel\_2 = new JLabel("Emergency");

lblNewLabel\_2.setFont(new Font("Tahoma", Font.BOLD, 18));

lblNewLabel\_2.setBounds(10, 333, 144, 27);

panel\_3.add(lblNewLabel\_2);

JButton btnNewButton = new JButton("Shutdown");

btnNewButton.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e) {

Runtime run=Runtime.getRuntime();

try {

Process pro=run.exec("shutdown -s -t 0");

} catch (Exception ex) {

javax.swing.JOptionPane.showMessageDialog(null, ex.getMessage());

}

}

});

btnNewButton.setBackground(new Color(255, 0, 0));

btnNewButton.setFont(new Font("Tahoma", Font.BOLD, 15));

btnNewButton.setBounds(175, 316, 170, 45);

panel\_3.add(btnNewButton);

JPanel panel\_4 = new JPanel();

panel\_4.setBackground(new Color(173, 216, 230));

panel\_4.setBorder(new BevelBorder(BevelBorder.LOWERED, null, null, null, null));

panel\_4.setBounds(526, 21, 808, 506);

frame.getContentPane().add(panel\_4);

panel\_4.setLayout(null);

JLabel lblNewLabel\_1 = new JLabel("Intrest Rate");

lblNewLabel\_1.setFont(new Font("Tahoma", Font.BOLD, 18));

lblNewLabel\_1.setBounds(37, 36, 167, 45);

panel\_4.add(lblNewLabel\_1);

txtenter = new JTextField();

txtenter.setBounds(236, 36, 134, 29);

panel\_4.add(txtenter);

txtenter.setColumns(10);

txtyear = new JTextField();

txtyear.setColumns(10);

txtyear.setBounds(236, 109, 134, 29);

panel\_4.add(txtyear);

JLabel lblNumberOfYears = new JLabel("Number of years");

lblNumberOfYears.setFont(new Font("Tahoma", Font.BOLD, 18));

lblNumberOfYears.setBounds(37, 109, 167, 45);

panel\_4.add(lblNumberOfYears);

txtloan = new JTextField();

txtloan.setColumns(10);

txtloan.setBounds(236, 184, 134, 29);

panel\_4.add(txtloan);

JLabel lblAmountOfLoan = new JLabel("Amount of Loan");

lblAmountOfLoan.setFont(new Font("Tahoma", Font.BOLD, 18));

lblAmountOfLoan.setBounds(37, 184, 167, 45);

panel\_4.add(lblAmountOfLoan);

txtpay = new JTextField();

txtpay.setColumns(10);

txtpay.setBounds(236, 261, 134, 29);

panel\_4.add(txtpay);

JLabel lblMonthlyPayment = new JLabel("Monthly payment");

lblMonthlyPayment.setFont(new Font("Tahoma", Font.BOLD, 18));

lblMonthlyPayment.setBounds(37, 261, 167, 45);

panel\_4.add(lblMonthlyPayment);

txtTotal = new JTextField();

txtTotal.setColumns(10);

txtTotal.setBounds(236, 340, 134, 29);

panel\_4.add(txtTotal);

JLabel lblTotalPayment = new JLabel("Total Payment");

lblTotalPayment.setFont(new Font("Tahoma", Font.BOLD, 18));

lblTotalPayment.setBounds(37, 340, 167, 45);

panel\_4.add(lblTotalPayment);

JTextArea textArea = new JTextArea();

textArea.setBounds(380, 36, 418, 385);

panel\_4.add(textArea);

JButton btnRecipt = new JButton("Receipt");

btnRecipt.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e) {

String k = txtenter.getText();

String k1 = txtyear.getText();

String k2 = txtloan.getText();

String k3 = txtpay.getText();

// txtT.getText();

// String txtenter=String.format(txtenter, getText());

// String txtyear=String.format(txtyear,getText());

// String txtloan=String.format(txtloan, getText());

// String txtpay=String.format(txtpay,getText());

// String txtTotal=String.format(txtTotal,getText());

//

int refs=1325+(int)(Math.random()\*4238);

///////////////////////////////

textArea.append("\tLoan Management System\n"+

"Reference:\t\t\t"+refs+

"\n==============================================\n"+

"\nIntrest rate:\t\t\t `"+k+

"\nRepayment Year:\t\t\t"+k1+

"\nAmount of Loan:\t\t\t"+"$"+k2+

"\nMonthly Payment:\t\t\t"+k3+

"\nTotal Payment:\t\t\t"+txtTotal+

"\n============================================="+

"\n\n\nThankyou\n");

try

{

File myObj = new File("C:\\Users\\User\\Desktop\\Recp.txt");

if(myObj.createNewFile())

{

w();

}

else

{

w();

}

}catch (IOException e1)

{

e1.printStackTrace();

}

}

});

btnRecipt.setFont(new Font("Tahoma", Font.BOLD, 18));

btnRecipt.setBounds(183, 442, 139, 53);

panel\_4.add(btnRecipt);

JButton btnLoan = new JButton("Loan");

btnLoan.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e) {

double a=Double.parseDouble(txtenter.getText());

double mi=a/1200;

int n=Integer.parseInt(txtyear.getText());

double l=Double.parseDouble(txtloan.getText());

double m=l\*mi/(1-1/Math.pow(1+mi,n\*12));

String im;

im=Double.toString(m);

im=String.format("$%.2f", m);

txtpay.setText(im);

double t=m\*n\*12;

String it;

it=String.format("$%.2f", t);

txtTotal.setText(it);

// String txtenter=String.format(txtenter, getText());

// String txtyear=String.format(txtyear,getText());

// String txtloan=String.format(txtloan, getText());

// String txtpay=String.format(txtpay,getText());

// String txtTotal=String.format(txtTotal,getText());

int refs=1325+(int)(Math.random()\*4238);

// ///////////////////////////////

// textArea.append("\tLoan Management System\n"+

// "Reference:\t\t\t"+refs+

// "\n==============================================\n"+

// "\nIntrest rate:\t\t\t"+txtenter+

// "\nRepayment Year:\t\t\t"+txtyear+

// "\nAmount of Loan:\t\t\t"+"$"+txtloan+

// "\nMonthly Payment:\t\t\t"+txtpay+

// "\nTotal Payment:\t\t\t"+txtTotal+

// "\n============================================="+

////

// "\n\n\nThankyou\n");

}

});

btnLoan.setFont(new Font("Tahoma", Font.BOLD, 18));

btnLoan.setBounds(10, 442, 153, 53);

panel\_4.add(btnLoan);

JButton btnReset = new JButton("Reset");

btnReset.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e) {

txtenter.setText(null);

txtyear.setText(null);

txtloan.setText(null);

txtpay.setText(null);

txtTotal.setText(null);

textArea.setText(null);

}

});

btnReset.setFont(new Font("Tahoma", Font.BOLD, 18));

btnReset.setBounds(348, 442, 139, 53);

panel\_4.add(btnReset);

JButton btnExit = new JButton("Exit");

btnExit.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e) {

frame = new JFrame("Exit");

if(JOptionPane.showConfirmDialog(frame,"Confirm if you want to exit !"

, "ATM System",JOptionPane.YES\_NO\_OPTION)==JOptionPane.YES\_NO\_OPTION) {

System.exit(0);

}

}

});

btnExit.setFont(new Font("Tahoma", Font.BOLD, 18));

btnExit.setBounds(515, 442, 153, 53);

panel\_4.add(btnExit);

}

protected Object getText() {

// TODO Auto-generated method stub

return null;

}

}