package com.NoPainNoGain;  
  
import javax.swing.\*;  
import java.awt.\*;  
import java.awt.event.ActionEvent;  
import java.awt.event.ActionListener;  
  
public class Test extends JFrame {  
 double num,ans;  
 int calculation;  
 public Test(){  
 setTitle("MN");  
 setSize(350,350);  
 setVisible(true);  
 setResizable(false);  
 setLayout(null);  
 setDefaultCloseOperation(JFrame.*EXIT\_ON\_CLOSE*);  
 *//-------Frame icon----* ImageIcon image=new ImageIcon("Appa.png");*//---craye an ImageIcon* setIconImage(image.getImage());*//-----change icon of frame  
  
  
  
 //-----Textfield---* TextField txtdisplay=new TextField();  
 txtdisplay.setVisible(true);  
 txtdisplay.setBounds(20,20,300,30);  
 add(txtdisplay);  
  
 *//----------JLabel---------* JLabel label=new JLabel();  
 label.setBounds(280,15,100,100);  
 label.setVisible(true);  
 add(label);  
  
 *//----JButton* JButton b1=new JButton("1");  
 JButton b2=new JButton("2");  
 JButton b3=new JButton("3");  
 JButton b4=new JButton(".");  
 JButton b5=new JButton("4");  
 JButton b6=new JButton("5");  
 JButton b7=new JButton("6");  
 JButton b8=new JButton("0");  
 JButton b9=new JButton("7");  
 JButton b10=new JButton("8");  
 JButton b11=new JButton("9");  
 JButton b12=new JButton("=");  
 JButton b13=new JButton("+");  
 JButton b14=new JButton("-");  
 JButton b15=new JButton("\*");  
 JButton b16=new JButton("/");  
 JButton b17=new JButton("C");  
 JButton b18=new JButton("<<");  
 JButton b19=new JButton("n!");  
 JButton b20=new JButton("n^");*// this button is not complet* b1.setSize(60,30);  
 b1.setLocation(20,100);  
 b1.setVisible(true);  
 add(b1);  
 b2.setSize(60,30);  
 b2.setLocation(20,140);  
 b2.setVisible(true);  
 add(b2);  
 b3.setSize(60,30);  
 b3.setLocation(20,180);  
 b3.setVisible(true);  
 add(b3);  
 b4.setSize(60,30);  
 b4.setLocation(20,220);  
 b4.setVisible(true);  
 add(b4);  
 b5.setSize(60,30);  
 b5.setLocation(90,100);  
 b5.setVisible(true);  
 add(b5);  
 b6.setSize(60,30);  
 b6.setLocation(90,140);  
 b6.setVisible(true);  
 add(b6);  
 b7.setSize(60,30);  
 b7.setLocation(90,180);  
 b7.setVisible(true);  
 add(b7);  
 b8.setSize(60,30);  
 b8.setLocation(90,220);  
 b8.setVisible(true);  
 add(b8);  
 b9.setSize(60,30);  
 b9.setLocation(160,100);  
 b9.setVisible(true);  
 add(b9);  
 b10.setSize(60,30);  
 b10.setLocation(160,140);  
 b10.setVisible(true);  
 add(b10);  
 b11.setSize(60,30);  
 b11.setLocation(160,180);  
 b11.setVisible(true);  
 add(b11);  
 b12.setSize(60,30);  
 b12.setLocation(160,220);  
 b12.setVisible(true);  
 add(b12);  
 b13.setSize(50,30);  
 b13.setLocation(230,100);  
 b13.setVisible(true);  
 add(b13);  
 b14.setSize(50,30);  
 b14.setLocation(230,140);  
 b14.setVisible(true);  
 add(b14);  
 b15.setSize(50,30);  
 b15.setLocation(230,180);  
 b15.setVisible(true);  
 add(b15);  
 b16.setSize(50,30);  
 b16.setLocation(230,220);  
 b16.setVisible(true);  
 add(b16);  
 b17.setSize(50,30);  
 b17.setLocation(290,220);  
 b17.setVisible(true);  
 add(b17);  
 b18.setSize(50,30);  
 b18.setLocation(290,180);  
 b18.setVisible(true);  
 add(b18);  
 b19.setSize(60,30);  
 b19.setLocation(20,60);  
 b19.setVisible(true);  
 add(b19);  
 b20.setSize(60,30);  
 b20.setLocation(90,60);  
 b20.setVisible(false);  
  
  
 *//---------JRadio Button* JRadioButton on=new JRadioButton("ON");  
 on.setBounds(290,100,50,30);  
 on.setVisible(true);  
 add(on);  
 JRadioButton off=new JRadioButton("OFF");  
 off.setBounds(290,140,50,30);  
 off.setVisible(true);  
 add(off);  
 ButtonGroup bg=new ButtonGroup();  
 bg.add(on);  
 bg.add(off);  
 on.setEnabled(false);  
 *//-----------JRadio Button in OFF & ON---------* class Offradiobutton{  
 *//----------------Switch case in +,-,\*,/* public void arthimentic\_operation(){  
 switch (calculation){  
 case 1: *//----Addition-----* ans= num + Double.*parseDouble*(txtdisplay.getText());  
 txtdisplay.setText(Double.*toString*(ans));  
 break;  
 case 2: *//----Subtraction---* ans=num - Double.*parseDouble*(txtdisplay.getText());  
 txtdisplay.setText(Double.*toString*(ans));  
 break;  
 case 3: *//----Multiplication---* ans=num \* Double.*parseDouble*(txtdisplay.getText());  
 txtdisplay.setText(Double.*toString*(ans));  
 break;  
 case 4: *//----Divition-------* ans=num / Double.*parseDouble*(txtdisplay.getText());  
 txtdisplay.setText(Double.*toString*(ans));  
 break;  
 }  
 }  
  
 public void offbutton(){  
 txtdisplay.setEnabled(false);  
 txtdisplay.setText("");  
 on.setEnabled(true);  
 off.setEnabled(false);  
 b1.setEnabled(false);  
 b2.setEnabled(false);  
 b3.setEnabled(false);  
 b4.setEnabled(false);  
 b5.setEnabled(false);  
 b6.setEnabled(false);  
 b7.setEnabled(false);  
 b8.setEnabled(false);  
 b9.setEnabled(false);  
 b10.setEnabled(false);  
 b11.setEnabled(false);  
 b12.setEnabled(false);  
 b13.setEnabled(false);  
 b14.setEnabled(false);  
 b15.setEnabled(false);  
 b16.setEnabled(false);  
 b17.setEnabled(false);  
 b18.setEnabled(false);  
 b19.setEnabled(false);  
 b20.setEnabled(false);  
  
 }  
 public void onbutton(){  
 txtdisplay.setEnabled(true);  
 on.setEnabled(false);  
 off.setEnabled(true);  
 b1.setEnabled(true);  
 b2.setEnabled(true);  
 b3.setEnabled(true);  
 b4.setEnabled(true);  
 b5.setEnabled(true);  
 b6.setEnabled(true);  
 b7.setEnabled(true);  
 b8.setEnabled(true);  
 b9.setEnabled(true);  
 b10.setEnabled(true);  
 b11.setEnabled(true);  
 b12.setEnabled(true);  
 b13.setEnabled(true);  
 b14.setEnabled(true);  
 b15.setEnabled(true);  
 b16.setEnabled(true);  
 b17.setEnabled(true);  
 b18.setEnabled(true);  
 b19.setEnabled(true);  
 b20.setEnabled(true);  
  
 }  
 }  
 Offradiobutton radiooff=new Offradiobutton();  
 off.addActionListener(new ActionListener() {  
 @Override  
 public void actionPerformed(ActionEvent e) {  
 radiooff.offbutton();*//-----calling Function* }  
 });  
 on.addActionListener(new ActionListener() {  
 @Override  
 public void actionPerformed(ActionEvent e) {  
 radiooff.onbutton();*//------calling Function* }  
 });  
  
 *//---------------Back to clear[<<]* b18.addActionListener(new ActionListener() {  
 @Override  
 public void actionPerformed(ActionEvent e) {  
 int length=txtdisplay.getText().length();  
 int number=txtdisplay.getText().length()-1;  
 String store;  
 if (length>0){  
 StringBuilder back=new StringBuilder(txtdisplay.getText());  
 back.deleteCharAt(number);  
 store=back.toString();  
 txtdisplay.setText(store);  
  
 }  
 }  
 });  
  
  
 *//------Action Licencer in AllButton* b1.addActionListener(new ActionListener() {  
 @Override  
 public void actionPerformed(ActionEvent e) {  
 txtdisplay.setText(txtdisplay.getText()+"1");  
 }  
 });  
 b2.addActionListener(new ActionListener() {  
 @Override  
 public void actionPerformed(ActionEvent e) {  
 txtdisplay.setText(txtdisplay.getText()+"2");  
 }  
 });  
 b3.addActionListener(new ActionListener() {  
 @Override  
 public void actionPerformed(ActionEvent e) {  
 txtdisplay.setText(txtdisplay.getText()+"3");  
 }  
 });  
 b4.addActionListener(new ActionListener() {  
 @Override  
 public void actionPerformed(ActionEvent e) {  
 txtdisplay.setText(txtdisplay.getText()+".");  
 }  
 });  
 b5.addActionListener(new ActionListener() {  
 @Override  
 public void actionPerformed(ActionEvent e) {  
 txtdisplay.setText(txtdisplay.getText()+"4");  
 }  
 });  
 b6.addActionListener(new ActionListener() {  
 @Override  
 public void actionPerformed(ActionEvent e) {  
 txtdisplay.setText(txtdisplay.getText()+"5");  
 }  
 });  
 b7.addActionListener(new ActionListener() {  
 @Override  
 public void actionPerformed(ActionEvent e) {  
 txtdisplay.setText(txtdisplay.getText()+"6");  
 }  
 });  
 b8.addActionListener(new ActionListener() {  
 @Override  
 public void actionPerformed(ActionEvent e) {  
 txtdisplay.setText(txtdisplay.getText()+"0");  
 }  
 });  
 b9.addActionListener(new ActionListener() {  
 @Override  
 public void actionPerformed(ActionEvent e) {  
 txtdisplay.setText(txtdisplay.getText()+"7");  
 }  
 });  
 b10.addActionListener(new ActionListener() {  
 @Override  
 public void actionPerformed(ActionEvent e) {  
 txtdisplay.setText(txtdisplay.getText()+"8");  
 }  
 });  
 b11.addActionListener(new ActionListener() {  
 @Override  
 public void actionPerformed(ActionEvent e) {  
 txtdisplay.setText(txtdisplay.getText()+"9");  
 }  
 });  
 b12.addActionListener(new ActionListener() {  
 @Override  
 public void actionPerformed(ActionEvent e) {  
 Offradiobutton ofr=new Offradiobutton();  
 ofr.arthimentic\_operation();  
 label.setText("");  
 txtdisplay.setText(String.*valueOf*(ans));  
 }  
 });  
 b13.addActionListener(new ActionListener() {  
 @Override  
 public void actionPerformed(ActionEvent e) {  
 num=Double.*parseDouble*(txtdisplay.getText());  
 calculation=1;  
 txtdisplay.setText("");  
 label.setText(String.*valueOf*(num+"+"));  
  
  
 }  
 });  
 b14.addActionListener(new ActionListener() {  
 @Override  
 public void actionPerformed(ActionEvent e) {  
 num=Double.*parseDouble*(txtdisplay.getText());  
 calculation=2;  
 txtdisplay.setText("");  
 label.setText(String.*valueOf*(num+"-"));  
 }  
 });  
 b15.addActionListener(new ActionListener() {  
 @Override  
 public void actionPerformed(ActionEvent e) {  
 num=Double.*parseDouble*(txtdisplay.getText());  
 calculation=3;  
 txtdisplay.setText("");  
 label.setText(String.*valueOf*(num+"\*"));  
 }  
 });  
 b16.addActionListener(new ActionListener() {  
 @Override  
 public void actionPerformed(ActionEvent e) {  
 num=Double.*parseDouble*(txtdisplay.getText());  
  
 txtdisplay.setText("");  
 label.setText(String.*valueOf*(num+"/"));  
 }  
 });  
 b17.addActionListener(new ActionListener() {  
 @Override  
 public void actionPerformed(ActionEvent e) {  
 txtdisplay.setText("");  
 label.setText("");  
 }  
 });  
 b19.addActionListener(new ActionListener() {  
 @Override  
 public void actionPerformed(ActionEvent e) {  
 num=Double.*parseDouble*(txtdisplay.getText());  
 double fact=1;  
 for (double i=num;i>=1;i--){  
  
 fact=fact\*i;  
 ans=fact;  
 }  
  
 txtdisplay.setText(Double.*toString*(ans));  
 label.setText(String.*valueOf*(num+"!"));  
 }  
 });  
  
 }  
 public static void main(String[]arg){  
 new Test();  
 }  
}

