**package** windowtoolkits;

**import** java.awt.\*;

/\*\*

\* **@author** Lakshman

\*

\*/

**public** **class** myframe **extends** Frame{

/\*\*

\* **@param** args

\*/

myframe(String str){

**super**(str);

}

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

myframe f=**new** myframe("Welcome to AWT Frames");

f.setSize(300,250);

f.setVisible(**true**);

}

}

package windowtoolkits;

import java.awt.Frame;

import java.awt.event.WindowAdapter;

import java.awt.event.WindowEvent;

import java.awt.event.WindowListener;

public class myframe2 extends Frame {

/\*\*

\* @author Lakshman

\*

\*/

public static void main(String[] args) {

// TODO Auto-generated method stub

myframe2 f=new myframe2();

f.setTitle("my awt frame closing");

f.setSize(300, 250);

f.setVisible(true);

f.addWindowListener(new myclass1());

}

}

class myclass1 extends WindowAdapter

{

public void windowClosing(WindowEvent e) {

System.exit(0);

}

}

package windowtoolkits;

import java.awt.Color;

import java.awt.Frame;

import java.awt.Graphics;

import java.awt.event.WindowAdapter;

import java.awt.event.WindowEvent;

public class draw1 extends Frame{

/\*\*

\* @author Lakshman

\*

\*/

public draw1() {

// TODO Auto-generated constructor stub

this.addWindowListener(new WindowAdapter() {

public void windowClosing(WindowEvent e){

System.exit(0);

}

});

}

public void paint(Graphics g){

g.setColor(Color.CYAN);

g.drawRect(40, 40, 200, 200);

g.drawOval(90, 70, 80, 80);

g.drawOval(110, 95, 5, 5);

g.drawOval(145,95 ,5,5);

g.drawLine(130, 95, 130,115);

g.drawArc(113, 115, 35, 20, 0, -180);

}

public static void main(String[] args) {

// TODO Auto-generated method stub

draw1 d=new draw1();

d.setSize(400,400);

d.setTitle("my drawing");

d.setVisible(true);

}

}

package windowtoolkits;

import java.awt.Color;

import java.awt.Frame;

import java.awt.Graphics;

import java.awt.event.WindowAdapter;

import java.awt.event.WindowEvent;

public class draw2 extends Frame{

/\*\*

\* @author Lakshman

\*

\*/

public draw2() {

// TODO Auto-generated constructor stub

this.addWindowListener(new WindowAdapter() {

public void windowClosing(WindowEvent e){

System.exit(0);

}

});

}

public void paint(Graphics g1){

g1.setColor(Color.CYAN);

g1.drawRect(40, 40, 200, 200);

g1.setColor(Color.BLUE);

g1.drawOval(90, 70, 80, 80);

g1.setColor(Color.DARK\_GRAY);

g1.drawOval(110, 95, 5, 5);

g1.drawOval(145,95 ,5,5);

g1.drawLine(130, 95, 130,115);

g1.setColor(Color.green);

g1.drawArc(113, 115, 35, 20, 0, -180);

}

public static void main(String[] args) {

// TODO Auto-generated method stub

draw2 d=new draw2();

d.setSize(400,400);

d.setTitle("my drawing new");

d.setVisible(true);

}

}

package windowtoolkits;

import java.awt.Color;

import java.awt.Font;

import java.awt.Frame;

import java.awt.Graphics;

import java.awt.event.WindowAdapter;

import java.awt.event.WindowEvent;

public class home extends Frame{

/\*\*

\* @author Lakshman

\*

\*/

private static final Font String = null;

public home() {

this.addWindowListener(new WindowAdapter() {

public void windowClosing(WindowEvent e){

System.exit(0);

}

});

}

public void paint(Graphics g){

int x[]={375,275,475};

int y[]={125,200,200};

int n=3;

this.setBackground(Color.gray);

g.setColor(Color.cyan);

g.fillRect(300,200, 150, 100);

g.setColor(Color.green);

g.fillRect(350, 210, 50, 60);

g.drawLine(350,280,400,280);

g.setColor(Color.ORANGE);

g.fillPolygon(x, y, n);

g.setColor(Color.cyan);

g.fillOval(100, 100, 60,60);

g.setColor(Color.darkGray);

g.fillArc(50, 250, 150,100,0,180);

g.fillArc(150, 250, 150,100,0,180);

g.fillArc(450, 250, 150,100,0,180);

g.drawLine(50, 300,600,300);

g.setColor(Color.ORANGE);

g.drawString("This is my happy home", 275, 350);

}

public static void main(String[] args){

home h=new home();

h.setSize(500,400 );

h.setTitle("my home");

h.setVisible(true);

}

}

package windowtoolkits;

import java.awt.Frame;

import java.awt.Graphics;

import java.awt.Image;

import java.awt.MediaTracker;

import java.awt.Toolkit;

import java.awt.event.WindowAdapter;

import java.awt.event.WindowEvent;

import javax.tools.Tool;

class image extends Frame {

/\*\*

\* @author Lakshman

\*

\*/

static Image img;

image()

{

img=Toolkit.getDefaultToolkit().getImage("D:\\movie.jpg");

MediaTracker track=new MediaTracker(this);

track.addImage(img,0);

try

{

track.waitForID(0);

}

catch(InterruptedException ie){

addWindowListener(new WindowAdapter()

{

public void windowClosing(WindowEvent we)

{

System.exit(0);

}

});

}

}

public void paint(Graphics g)

{

g.drawImage(img,100,50,null);

}

public static void main(String[] args)

{

image i=new image();

i.setSize(200,200);

i.setTitle("my images");

i.setIconImage(img);

i.setVisible(true);

}

}

package windowtoolkits;

import java.awt.Button;

import java.awt.Color;

import java.awt.Frame;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

import java.awt.event.WindowAdapter;

import java.awt.event.WindowEvent;

public class mybuttons extends Frame implements ActionListener{

/\*\*

\* @author Lakshman

\*

\*/

Button b1,b2,b3;

public mybuttons() {

// TODO Auto-generated constructor stub

this.setLayout(null);

b1=new Button("yellow");

b2=new Button("blue");

b3=new Button("pink");

b1.setBounds(100, 100, 70, 40);

b2.setBounds(100, 160, 70, 40);

b3.setBounds(100, 220, 70, 40);

this.add(b1);

this.add(b2);

this.add(b3);

b1.addActionListener(this);

b2.addActionListener(this);

b3.addActionListener(this);

addWindowListener(new WindowAdapter() {

public void windowClosing(WindowEvent we){

System.exit(0);

}

});

}

public void actionPerformed(ActionEvent ae){

String str=ae.getActionCommand();

if (str.equals("yellow")) this.setBackground(Color.yellow);

if (str.equals("blue")) this.setBackground(Color.blue);

if (str.equals("pink")) this.setBackground(Color.pink);

}

public static void main(String[] args) {

// TODO Auto-generated method stub

mybuttons mb=new mybuttons();

mb.setSize(400, 400);

mb.setTitle("welcome to buttons");

mb.setVisible(true);

}

}

package windowtoolkits;

import java.awt.Checkbox;

import java.awt.FlowLayout;

import java.awt.Frame;

import java.awt.Graphics;

import java.awt.event.ItemEvent;

import java.awt.event.ItemListener;

import java.awt.event.WindowAdapter;

import java.awt.event.WindowEvent;

public class mycheckbox extends Frame implements ItemListener {

/\*\*

\* @author Lakshman

\*

\*/

String msg="";

Checkbox c1,c2,c3;

public mycheckbox() {

// TODO Auto-generated constructor stub

setLayout(new FlowLayout());

c1=new Checkbox("Bold",true);

c2=new Checkbox("Italic");

c3=new Checkbox("Underline");

add(c1);

add(c2);

add(c3);

c1.addItemListener(this);

c2.addItemListener(this);

c3.addItemListener(this);

addWindowListener(new WindowAdapter() {

public void windowClosing(WindowEvent we){

System.exit(0);

}

});

}

public void itemStateChanged(ItemEvent ie){

repaint();

}

public void paint(Graphics g){

g.drawString("current state:", 10, 100);

msg="Bold:"+c1.getState();

g.drawString(msg, 10, 120);

msg="Italic:"+c2.getState();

g.drawString(msg, 10, 140);

msg="Underline:"+c3.getState();

g.drawString(msg, 10, 160);

}

public static void main(String[] args) {

mycheckbox mc=new mycheckbox();

mc.setTitle("welcome to checkboxes");

mc.setSize(400, 400);

mc.setVisible(true);

}

}

package windowtoolkits;

import java.awt.Checkbox;

import java.awt.CheckboxGroup;

import java.awt.Color;

import java.awt.FlowLayout;

import java.awt.Font;

import java.awt.Frame;

import java.awt.Graphics;

import java.awt.Label;

import java.awt.TextField;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

import java.awt.event.ItemEvent;

import java.awt.event.ItemListener;

import java.awt.event.WindowAdapter;

import java.awt.event.WindowEvent;

public class mytext extends Frame implements ActionListener {

/\*\*

\* @author Lakshman

\*

\*/

TextField name,pass;

public mytext() {

setLayout(new FlowLayout());

Label n=new Label("Name:",Label.LEFT);

Label p=new Label("Password:",Label.LEFT);

name=new TextField(20);

pass=new TextField(20);

pass.setEchoChar('\*');

name.setBackground(Color.yellow);

pass.setBackground(Color.red);

Font f=new Font("Arial", Font.PLAIN, 25);

name.setFont(f);

add(n);

add(name);

add(p);

add(pass);

name.addActionListener(this);

pass.addActionListener(this);

addWindowListener(new WindowAdapter() {

public void windowClosing(WindowEvent we){

System.exit(0);

}

});

}

public void actionPerformed(ActionEvent ae){

Graphics g=this.getGraphics();

g.drawString("Name:"+name.getText(), 10, 200);

g.drawString("Password:"+pass.getText(), 10, 240);

}

public static void main(String[] args) {

mytext mt=new mytext();

mt.setTitle("welcome to Text Fileds");

mt.setSize(400, 400);

mt.setVisible(true);

}

}

package windowtoolkits;

import java.awt.Checkbox;

import java.awt.Choice;

import java.awt.FlowLayout;

import java.awt.Frame;

import java.awt.Graphics;

import java.awt.List;

import java.awt.event.ItemEvent;

import java.awt.event.ItemListener;

import java.awt.event.WindowAdapter;

import java.awt.event.WindowEvent;

public class mychoice extends Frame implements ItemListener {

/\*\*

\* @author Lakshman

\*

\*/

String msg;

Choice ch;

public mychoice() {

setLayout(new FlowLayout());

ch=new Choice();

ch.add("english");

ch.add("telugu");

ch.add("hindi");

ch.add("sanskrit");

ch.add("french");

add(ch);

ch.addItemListener(this);

addWindowListener(new WindowAdapter() {

public void windowClosing(WindowEvent we){

System.exit(0);

}

});

}

public void itemStateChanged(ItemEvent ie){

repaint();

}

public void paint(Graphics g){

g.drawString("Selected Languages:", 10, 100);

msg=ch.getSelectedItem();

g.drawString(msg, 10, 120);

}

public static void main(String[] args) {

mychoice mc=new mychoice();

mc.setTitle("welcome to choicebox");

mc.setSize(400, 350);

mc.setVisible(true);

}

}

package windowtoolkits;

import java.awt.Checkbox;

import java.awt.FlowLayout;

import java.awt.Frame;

import java.awt.Graphics;

import java.awt.List;

import java.awt.event.ItemEvent;

import java.awt.event.ItemListener;

import java.awt.event.WindowAdapter;

import java.awt.event.WindowEvent;

public class mylist extends Frame implements ItemListener {

/\*\*

\* @author Lakshman

\*

\*/

int[] msg;

List lst;

public mylist() {

setLayout(new FlowLayout());

lst=new List(4,true);

lst.add("english");

lst.add("telugu");

lst.add("hindi");

lst.add("sanskrit");

lst.add("french");

add(lst);

lst.addItemListener(this);

addWindowListener(new WindowAdapter() {

public void windowClosing(WindowEvent we){

System.exit(0);

}

});

}

public void itemStateChanged(ItemEvent ie){

repaint();

}

public void paint(Graphics g){

g.drawString("Selected Languages:", 100, 200);

msg=lst.getSelectedIndexes();

for(int i=0;i<msg.length;i++){

String item=lst.getItem(msg[i]);

g.drawString(item, 100, 220+i\*20);

}

}

public static void main(String[] args) {

mylist ml=new mylist();

ml.setTitle("welcome to checkboxes");

ml.setSize(400, 400);

ml.setVisible(true);

}

}

package windowtoolkits;

import java.awt.Frame;

import java.awt.Graphics;

import java.awt.Scrollbar;

import java.awt.event.AdjustmentEvent;

import java.awt.event.AdjustmentListener;

import java.awt.event.WindowAdapter;

import java.awt.event.WindowEvent;

class myscroll extends Frame implements AdjustmentListener

{

/\*\*

\* @author Lakshman

\*

\*/

String msg="";

Scrollbar s1;

myscroll()

{

setLayout(null);

s1=new Scrollbar(Scrollbar.VERTICAL,0,30,0,400);

s1.setBounds(250,50,30,200);

add(s1);

s1.addAdjustmentListener(this);

addWindowListener(new WindowAdapter()

{

public void windowClosing(WindowEvent we)

{

System.exit(0);

}

});

}

public void adjustmentValueChanged(AdjustmentEvent ae)

{

repaint();

}

public void paint(Graphics g)

{

g.drawString("scrollbar position:",20,150);

msg+=s1.getValue();

g.drawString(msg,20,180);

msg="";

}

public static void main(String[] args)

{

myscroll ms=new myscroll();

ms.setTitle("my scroll bar");

ms.setSize(400,400);

ms.setVisible(true);

}

}

package windowtoolkits;

import java.awt.\*;

import java.awt.event.\*;

public class keys extends Frame implements KeyListener

{

/\*\*

\* @author Lakshman

\*

\*/

TextArea ta;

String msg="";

keys()

{

setLayout(new FlowLayout());

ta=new TextArea(5,25);

Font f=new Font("SansSerif",Font.BOLD,25);

ta.setFont(f);

ta.setForeground(Color.blue);

add(ta);

ta.addKeyListener(this);

addWindowListener(new WindowAdapter()

{

public void windowClosing(WindowEvent we)

{

System.exit(0);

}

});

}

public void keyPressed(KeyEvent ke)

{

int keycode=ke.getKeyCode();

msg+="\nkey Code: "+ keycode;

String keyname=ke.getKeyText(keycode);

msg+="\nkey pressed: "+keyname;

ta.setText(msg);

msg="";

}

public void keyTyped(KeyEvent ke)

{

}

public void KeyReleased(KeyEvent ke){

int keycode=ke.getKeyCode();

msg+="\nkey code: "+ keycode;

String keyname=ke.getKeyText(keycode);

msg+="\n key released: "+ keyname;

ta.setText(msg);

msg="";

}

public static void main(String[] args)

{

keys ks=new keys();

ks.setTitle(" catch the key ");

ks.setSize(400,400);

ks.setVisible(true);

}

@Override

public void keyReleased(KeyEvent e) {

// TODO Auto-generated method stub

}

}

package windowtoolkits;

import java.awt.ActiveEvent;

import java.awt.Button;

import java.awt.Frame;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

class frame1 extends Frame implements ActionListener

{

/\*\*

\* @author Lakshman

\*

\*/

Button b1,b2;

frame1()

{

setLayout(null);

b1=new Button("Next");

b2=new Button("Close");

b1.setBounds(100,100,70,40);

b2.setBounds(200,100,70,40);

add(b1);

add(b2);

b1.addActionListener(this);

b2.addActionListener(this);

}

public void actionPerformed(ActionEvent ae)

{

if(ae.getSource()==b1)

{

frame2 f2=new frame2();

f2.setSize(400,400);

f2.setVisible(true);

}

else

{

System.exit(0);

}

}

public static void main(String[] args)

{

frame1 f1=new frame1();

f1.setSize(500,500);

f1.setTitle(" First Frame ");

f1.setVisible(true);

}

}

==================================

package windowtoolkits;

import java.awt.ActiveEvent;

import java.awt.Button;

import java.awt.FlowLayout;

import java.awt.Frame;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

class frame2 extends Frame implements ActionListener

{

/\*\*

\* @author Lakshman

\*

\*/

Button b;

frame2()

{

setLayout(new FlowLayout());

b=new Button("back");

add(b);

b.addActionListener(this);

}

public void actionPerformed(ActionEvent ae)

{

this. dispose ();

}

} End of AWT

package swing;

import java.awt.Color;

import java.awt.Container;

import java.awt.FlowLayout;

import javax.swing.BorderFactory;

import javax.swing.JButton;

import javax.swing.JFrame;

import javax.swing.border.BevelBorder;

import javax.swing.border.Border;

import javax.swing.border.EtchedBorder;

public class borderdemo extends JFrame

{

/\*\*

\* @author Lakshman

\*

\*/

JButton b1,b2,b3,b4,b5,b6,b7,b8;

borderdemo()

{

Container c=getContentPane();

c.setLayout(new FlowLayout());

b1=new JButton("raised bevel border");

b2=new JButton("lowered bevel border");

b3=new JButton("raised etched border");

b4=new JButton("lowered etched border");

b5=new JButton("line border");

b6=new JButton("matte border");

b7=new JButton("compound border");

b8=new JButton("empty border");

Border bd=BorderFactory.createBevelBorder(BevelBorder.RAISED,Color.red,Color.green);

b1.setBorder(bd);

bd=BorderFactory.createBevelBorder(BevelBorder.LOWERED);

b2.setBorder(bd);

bd=BorderFactory.createEtchedBorder(EtchedBorder.RAISED,Color.red,Color.green);

b3.setBorder(bd);

bd=BorderFactory.createEtchedBorder(EtchedBorder.LOWERED,Color.red,Color.green);

b4.setBorder(bd);

bd=BorderFactory.createLineBorder(Color.red,5);

b5.setBorder(bd);

bd=BorderFactory.createMatteBorder(5,10,15,20,Color.red);

b6.setBorder(bd);

//bd=BorderFactory.createCompoundBorder();

//b7.setBorder(bd);

bd=BorderFactory.createEmptyBorder();

b8.setBorder(bd);

c.add(b1);

c.add(b2);

c.add(b3);

c.add(b4);

c.add(b5);

c.add(b6);

c.add(b7);

c.add(b8);

setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

}

public static void main(String[] args)

{

borderdemo obj=new borderdemo();

obj.setTitle("borders");

obj.setSize(500,400);

obj.setVisible(true);

}

}

**package swing;**

**import java.awt.Container;**

**import java.awt.event.ItemEvent;**

**import java.awt.event.ItemListener;**

**import javax.swing.ButtonGroup;**

**import javax.swing.JButton;**

**import javax.swing.JCheckBox;**

**import javax.swing.JFrame;**

**import javax.swing.JRadioButton;**

**import javax.swing.JTextField;**

**import javax.swing.SwingUtilities;**

**import javax.swing.UIManager;**

**public class LookFeel extends JFrame implements ItemListener**

**{**

**/\*\***

**\* @author Lakshman**

**\***

**\*/**

**JButton b;**

**JCheckBox cb;**

**JTextField t;**

**JRadioButton r1,r2,r3;**

**ButtonGroup bg;**

**Container c;**

**LookFeel()**

**{**

**c=this.getContentPane();**

**c.setLayout(null);**

**b=new JButton("Button");**

**cb=new JCheckBox("CheckBox");**

**t=new JTextField("TextField",15);**

**r1=new JRadioButton("Metal");**

**r2=new JRadioButton("Motif");**

**r3=new JRadioButton("Windows");**

**bg=new ButtonGroup();**

**bg.add(r1);**

**bg.add(r2);**

**bg.add(r3);**

**b.setBounds(100,50,75,40);**

**cb.setBounds(100,100,100,40);**

**t.setBounds(100,150,100,40);**

**r1.setBounds(50,250,100,30);**

**r2.setBounds(150,250,100,30);**

**r3.setBounds(250,250,100,30);**

**c.add(b);**

**c.add(cb);**

**c.add(t);**

**c.add(r1);**

**c.add(r2);**

**c.add(r3);**

**}**

**public void itemStateChanged(ItemEvent ie)**

**{**

**try**

**{**

**if(r1.getModel().isSelected())**

**UIManager.setLookAndFeel("javax.swing.plaf.metal.MetalLookAndFeel");**

**if(r2.getModel().isSelected())**

**UIManager.setLookAndFeel("javax.swing.plaf.motif.MotifLookAndFeel");**

**if(r3.getModel().isSelected())**

**UIManager.setLookAndFeel("javax.swing.plaf.windows.WindowsLookAndFeel");**

**SwingUtilities.updateComponentTreeUI(c);**

**}**

**catch(Exception e)**

**{**

**}**

**}**

**public static void main(String[] args)**

**{**

**LookFeel lf=new LookFeel();**

**lf.setSize(400,400);**

**lf.setTitle("Look and Feel");**

**lf.setVisible(true);**

**}**

**}**

**package** swing;

**import** java.awt.\*;

**import** java.awt.event.\*;

**import** javax.swing.\*;

**import** javax.swing.border.\*;

**public** **class** buttondemo1 **extends** JFrame **implements** ActionListener

{

/\*\*

\* **@author** Lakshman

\*

\*/

JButton b;

JLabel lbl;

buttondemo1()

{

Container c=getContentPane();

c.setLayout(**new** FlowLayout());

ImageIcon ii=**new** ImageIcon();

b=**new** JButton("Click me",ii);

b.setBackground(Color.*yellow*);

b.setForeground(Color.*red*);

b.setFont(**new** Font("Arial",Font.*BOLD*,30));

Border bd=BorderFactory.*createBevelBorder*(BevelBorder.*RAISED*);

b.setBorder(bd);

b.setToolTipText("This is a button");

b.setMnemonic('c');

c.add(b);

b.addActionListener(**this**);

lbl = **new** JLabel();

c.add(lbl);

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

}

**public** **void** actionPerformed(ActionEvent ae)

{

ImageIcon ii=**new** ImageIcon("D:\\p.jpg");

lbl.setIcon(ii);

}

**public** **static** **void** main(String[] args)

{

buttondemo1 obj=**new** buttondemo1();

obj.setTitle("my button");

obj.setSize(500,400);

obj.setVisible(**true**);

}

}

package swing;

import java.awt.Container;

import java.awt.FlowLayout;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

import javax.swing.ButtonGroup;

import javax.swing.JCheckBox;

import javax.swing.JFrame;

import javax.swing.JRadioButton;

import javax.swing.JTextArea;

public class CheckRadio extends JFrame implements ActionListener

{

/\*\*

\* @author Lakshman

\*

\*/

JCheckBox cb1,cb2;

JRadioButton rb1,rb2;

JTextArea ta;

ButtonGroup bg;

String msg="";

CheckRadio()

{

Container c=getContentPane();

c.setLayout(new FlowLayout());

ta=new JTextArea(10,20);

cb1=new JCheckBox("Java",true);

cb2=new JCheckBox("J2EE");

rb1=new JRadioButton("Male",true);

rb2=new JRadioButton("Female");

bg=new ButtonGroup();

bg.add(rb1);

bg.add(rb2);

c.add(cb1);

c.add(cb2);

c.add(rb1);

c.add(rb2);

c.add(ta);

cb1.addActionListener(this);

cb2.addActionListener(this);

rb1.addActionListener(this);

rb2.addActionListener(this);

setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

}

public void actionPerformed(ActionEvent ae)

{

if(cb1.getModel().isSelected()) msg+="\nJava";

if(cb2.getModel().isSelected()) msg+="\nJ2EE";

if(rb1.getModel().isSelected()) msg+="\nMale";

else msg+="\nFemale";

ta.setText(msg);

msg="";

}

public static void main(String[] args)

{

CheckRadio cr=new CheckRadio();

cr.setTitle("My Checkboxes and Radio buttons");

cr.setSize(500,400);

cr.setVisible(true);

}

}

package swing;

import java.awt.BorderLayout;

import java.awt.Container;

import javax.swing.JFrame;

import javax.swing.JTextArea;

import javax.swing.JTree;

import javax.swing.event.TreeSelectionEvent;

import javax.swing.event.TreeSelectionListener;

import javax.swing.tree.DefaultMutableTreeNode;

import javax.swing.tree.TreePath;

public class JTreeDemo extends JFrame implements TreeSelectionListener

{

/\*\*

\* @author Lakshman

\*

\*/

DefaultMutableTreeNode root,dir1,dir2,file1,file2,file3;

JTree tree;

Container c;

String msg="";

JTextArea ta;

JTreeDemo()

{

c=getContentPane();

c.setLayout(new BorderLayout());

root=new DefaultMutableTreeNode("c:\\");

dir1=new DefaultMutableTreeNode("JavaPrograms");

dir2=new DefaultMutableTreeNode("Other Programs");

file1=new DefaultMutableTreeNode("JButtonDemo.java");

file2=new DefaultMutableTreeNode("JCheckBoxDemo.java");

file3=new DefaultMutableTreeNode("xyz.c");

root.add(dir1);

dir1.add(file1);

dir1.add(file2);

dir1.add(dir2);

dir2.add(file3);

tree=new JTree(root);

c.add("North",tree);

ta=new JTextArea();

c.add("South",ta);

tree.addTreeSelectionListener(this);

setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

}

public void valueChanged(TreeSelectionEvent tse)

{

TreePath tp=tse.getNewLeadSelectionPath();

msg+="\nPath of Selected Component="+ tp;

Object comp=tp.getLastPathComponent();

msg+="\nComponet selected= "+ comp;

int n=tp.getPathCount();

msg+="\nLevel of component = "+n;

ta.setText(msg);

msg="";

}

public static void main(String[] args)

{

JTreeDemo td=new JTreeDemo();

td.setSize(400,300);

td.setTitle(" Java Tree ");

td.setVisible(true);

}

}

package swing;

import java.awt.BorderLayout;

import java.awt.Container;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

import javax.swing.JCheckBox;

import javax.swing.JCheckBoxMenuItem;

import javax.swing.JFrame;

import javax.swing.JMenu;

import javax.swing.JMenuBar;

import javax.swing.JMenuItem;

public class MyMenu extends JFrame implements ActionListener

{

/\*\*

\* @author Lakshman

\*

\*/

JMenuBar mb;

JMenu file ,edit,font;

JMenuItem op,sa,cl,cp,pt,f1,f2;

JCheckBoxMenuItem pr;

MyMenu()

{

Container c=getContentPane();

c.setLayout(new BorderLayout());

mb=new JMenuBar();

c.add("North",mb);

file=new JMenu("File");

edit=new JMenu("Edit");

mb.add(file);

mb.add(edit);

op=new JMenuItem("Open");

sa=new JMenuItem("Save");

cl=new JMenuItem("Close");

cp=new JMenuItem("Copy");

pt=new JMenuItem("Paste");

file.add(op);

file.add(sa);

file.add(cl);

edit.add(cp);

edit.add(pt);

cl.setEnabled(false);

pr=new JCheckBoxMenuItem("Print");

file.add(pr);

file.addSeparator();

font=new JMenu("Font");

file.add(font);

f1=new JMenuItem("Arial");

f2=new JMenuItem("Times New Roman");

font.add(f1);

font.add(f2);

op.addActionListener(this);

sa.addActionListener(this);

cl.addActionListener(this);

cp.addActionListener(this);

pt.addActionListener(this);

pr.addActionListener(this);

f1.addActionListener(this);

f2.addActionListener(this);

setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

}

public void actionPerformed(ActionEvent ae)

{

if(op.isArmed()) System.out.println("Open is selected");

if(sa.isArmed()) System.out.println("Save is selected");

if(cl.isArmed()) System.out.println("Close is selected");

if(cp.isArmed()) System.out.println("Copy is selected");

if(pt.isArmed()) System.out.println("Paste is selected");

if(pr.getModel().isSelected()) System.out.println("Printing on...");

else System.out.println("Printing off...");

if(f1.isArmed()) System.out.println("Arial Font is selected");

if(f2.isArmed()) System.out.println("Times New is selected");

}

public static void main(String[] args)

{

MyMenu mm=new MyMenu();

mm.setTitle("JMenu demo");

mm.setSize(500,400);

mm.setVisible(true);

}

}

package swing;

import java.awt.BorderLayout;

import java.awt.Container;

import java.awt.FlowLayout;

import java.awt.TextArea;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

import java.io.BufferedReader;

import java.io.File;

import java.io.FileNotFoundException;

import java.io.FileReader;

import javax.swing.JCheckBoxMenuItem;

import javax.swing.JFileChooser;

import javax.swing.JFrame;

import javax.swing.JMenu;

import javax.swing.JMenuBar;

import javax.swing.JMenuItem;

public class MyMenu1 extends JFrame implements ActionListener

{

/\*\*

\* @author Lakshman

\*

\*/

JMenuBar mb;

JMenu file ,edit,font;

JMenuItem op,sa,cl,cp,pt,f1,f2;

JCheckBoxMenuItem pr;

MyMenu1()

{

Container c=getContentPane();

c.setLayout(new BorderLayout());

mb=new JMenuBar();

c.add("North",mb);

file=new JMenu("File");

edit=new JMenu("Edit");

mb.add(file);

mb.add(edit);

op=new JMenuItem("Open");

sa=new JMenuItem("Save");

cl=new JMenuItem("Close");

cp=new JMenuItem("Copy");

pt=new JMenuItem("Paste");

file.add(op);

file.add(sa);

file.add(cl);

edit.add(cp);

edit.add(pt);

cl.setEnabled(false);

pr=new JCheckBoxMenuItem("Print");

file.add(pr);

file.addSeparator();

font=new JMenu("Font");

file.add(font);

f1=new JMenuItem("Arial");

f2=new JMenuItem("Times New Roman");

font.add(f1);

font.add(f2);

op.addActionListener(this);

sa.addActionListener(this);

cl.addActionListener(this);

cp.addActionListener(this);

pt.addActionListener(this);

pr.addActionListener(this);

f1.addActionListener(this);

f2.addActionListener(this);

setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

}

public void actionPerformed(ActionEvent ae)

{

if(op.isArmed()) this.openFile();

if(sa.isArmed()) //this.saveFile();

if(cl.isArmed()) System.out.println("Close is selected");

if(cp.isArmed()) System.out.println("Copy is selected");

if(pt.isArmed()) System.out.println("Paste is selected");

if(pr.getModel().isSelected()) System.out.println("Printing on...");

else System.out.println("Printing off...");

if(f1.isArmed()) System.out.println("Arial Font is selected");

if(f2.isArmed()) System.out.println("Times New is selected");

}

void openFile()

{

JFileChooser fc=new JFileChooser();

int i=fc.showOpenDialog(this);

if(i==JFileChooser.APPROVE\_OPTION)

{

File f=fc.getSelectedFile();

String fname=f.getPath();

OpenFrame of=new OpenFrame(fname);

of.setSize(500,400);

of.setVisible(true);

}

}

public static void main(String[] args)

{

MyMenu1 mm1=new MyMenu1();

mm1.setTitle("JMeno demo");

mm1.setSize(500,400);

mm1.setVisible(true);

}

}

class OpenFrame extends JFrame

{

OpenFrame(String fname)

{

Container c=getContentPane();

c.setLayout(new FlowLayout());

TextArea ta=new TextArea();

c.add(ta);

String str="";

String str1="";

try

{

BufferedReader br=new BufferedReader(new FileReader(fname));

while((str=br.readLine())!=null)

str1+=str+"\n";

ta.setText(str1);

br.close();

}

catch(Exception e)

{

}

}

}

package swing;

import java.awt.Color;

import java.awt.Container;

import java.awt.FlowLayout;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

import javax.swing.JButton;

import javax.swing.JColorChooser;

import javax.swing.JFrame;

public class JColorChooserDemo extends JFrame implements ActionListener

{

/\*\*

\* @author Lakshman

\*

\*/

JButton b;

Container c;

JColorChooserDemo()

{

c=getContentPane();

c.setLayout(new FlowLayout());

b=new JButton("Select a Color");

c.add(b);

b.addActionListener(this);

}

public void actionPerformed(ActionEvent ae)

{

Color selectedcolor=null;

Color color=JColorChooser.showDialog(this,"Select a color",selectedcolor);

if(color!=null)

{

selectedcolor=color;

}

c.setBackground(color);

}

public static void main(String[] args)

{

JColorChooserDemo demo=new JColorChooserDemo();

demo.setSize(400,400);

demo.setVisible(true);

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

}

}

package swing;

import java.awt.Color;

import java.awt.Font;

import java.awt.Frame;

import java.awt.Graphics;

import java.util.Set;

class banner extends Frame implements Runnable

{

/\*\*

\* @author Lakshman

\*

\*/

String str="Rao & Naidu college ";

banner()

{

setLayout(null);

setBackground(Color.cyan);

setForeground(Color.red);

}

public void paint(Graphics g)

{

Font f=new Font("courier",Font.BOLD,40);

g.setFont(f);

g.drawString(str,10,100);

}

public void run()

{

for(;;)

{

repaint();

try

{

Thread.sleep(400);

}

catch(InterruptedException ie)

{

}

char ch=str.charAt(0);

str=str.substring(1,str.length());

str=str+ch;

}

}

public static void main(String[] args) throws Exception

{

banner b=new banner();

b.setSize(400,400);

b.setTitle("my college");

b.setVisible(true);

Thread t=new Thread(b);

t.start();

}

}

**package** layout;

**import** java.awt.BorderLayout;

**import** java.awt.Container;

**import** javax.swing.JButton;

**import** javax.swing.JFrame;

**public** **class** borderlayoutdemo **extends** JFrame

{

/\*\*

\* **@author** Lakshman

\*

\*/

borderlayoutdemo()

{

Container c=getContentPane();

BorderLayout obj=**new** BorderLayout();

c.setLayout(obj);

JButton b1,b2,b3,b4;

b1=**new** JButton("Button1");

b2=**new** JButton("Button2");

b3=**new** JButton("Button3");

b4=**new** JButton("Button4");

c.add("North",b1);

c.add("North",b2);

c.add("North",b3);

c.add("North",b4);

c.add(b1, BorderLayout.*NORTH*);

c.add(b2, BorderLayout.*EAST*);

c.add(b3, BorderLayout.*SOUTH*);

c.add(b4, BorderLayout.*CENTER*);

}

**public** **static** **void** main(String[] args)

{

borderlayoutdemo demo=**new** borderlayoutdemo();

demo.setSize(400,400);

demo.setVisible(**true**);

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

}} End of Swings & Layouts