IMAGE SCROLL

import java.awt.\*;

import java.awt.event.\*;

import java.applet.\*;

public class imgscroll extends Applet implements AdjustmentListener,MouseMotionListener

{

String msg;

int w,h;

Image i1;

Scrollbar width,height;

public void init()

{

width=new Scrollbar(Scrollbar.HORIZONTAL,1,1,5,500);

height=new Scrollbar(Scrollbar.VERTICAL,1,1,5,500);

add(width);

add(height);

width.addAdjustmentListener(this);

height.addAdjustmentListener(this);

addMouseMotionListener(this);

i1=getImage(getDocumentBase(),"cloud.jpg");

}

public void adjustmentValueChanged(AdjustmentEvent ae)

{

repaint();

}

public void mouseDragged(MouseEvent me)

{

repaint();

}

public void mouseMoved(MouseEvent me)

{

}

public void paint(Graphics g)

{

w=width.getValue();

h=height.getValue();

g.drawImage(i1,50,50,w,h,this);

}

}

//<applet code="imgscroll" width=500 height=500>

//</applet>

VIRTUAL KEYS

import java.awt.\*;

import java.applet.\*;

import java.awt.event.\*;

public class key extends Applet implements KeyListener

{

String msg="";

int x=10,y=20;

Font f1;

public void init()

{

f1= new Font("chiller",Font.ITALIC,50);

addKeyListener(this);

requestFocus();

}

public void keyPressed(KeyEvent ke)

{

showStatus("key down");

int k=ke.getKeyCode();

switch(k)

{

case KeyEvent.VK\_A:

msg="APPLE";

break;

case KeyEvent.VK\_B:

msg="BALL";

break;

case KeyEvent.VK\_C:

msg="CAT";

break;

case KeyEvent.VK\_D:

msg="DOLL";

break;

case KeyEvent.VK\_E:

msg="ELEPHANT";

break;

case KeyEvent.VK\_F:

msg="FAN";

break;

case KeyEvent.VK\_G:

msg="GUN";

break;

case KeyEvent.VK\_H:

msg="HIMALAYA";

break;

case KeyEvent.VK\_I:

msg="ICE CREAM";

break;

case KeyEvent.VK\_J:

msg="JACK FRUIT";

break;

case KeyEvent.VK\_K:

msg="KRACK-JACK";

break;

}

repaint();

}

public void keyReleased(KeyEvent ke)

{

showStatus("KEY RELEASED");

}

public void keyTyped(KeyEvent ke)

{

msg=ke.getKeyChar()+"-----"+msg;

repaint();

}

public void paint(Graphics g)

{

g.setFont(f1);

g.setColor(Color.blue);

g.drawString(msg,50,50);

}

}

//<applet code="key" width=600 height=600>

//</applet>

SNAKE

import java.awt.\*;

import java.applet.\*;

public class land extends Applet implements Runnable

{

Thread t;

Image i1,i2,i3;

int m=1100;

public void run()

{

while(true)

{

try

{

t.sleep(100);

}

catch(Exception e)

{

}

repaint();

}

}

public void paint(Graphics g)

{

i1=getImage(getCodeBase(),"clou.jpg");

i2=getImage(getCodeBase(),"green.jpg");

i3=getImage(getCodeBase(),"snake.jpg");

g.drawImage(i1,0,0,1300,250,this);

g.drawImage(i2,0,250,1300,800,this);

g.drawImage(i3,m,500,this);

m=m-10;

if (m==0)

m=1200;

}

public void init()

{

t=new Thread(this);

t.start();

}

}

//<applet code="land" width=1000 height=1000>

//</applet>

FACTORIAL

import java.applet.\*;

import java.awt.\*;

import java.awt.event.\*;

public class rfactapp extends Applet implements ActionListener

{

//TextField num,res;

TextField num=new TextField(12);

TextField res=new TextField(8);

Button fact;

public void init()

{

setLayout(null);

Label lnum=new Label("Enter the number:",Label.RIGHT);

Label lres=new Label("Result:",Label.RIGHT);

fact=new Button("Factorial");

lnum.setBounds(100,100,150,30);

lres.setBounds(100,200,150,30);

num.setBounds(300,100,150,30);

res.setBounds(300,200,150,30);

fact.setBounds(200,400,150,30);

add(lnum);

add(num);

add(lres);

add(res);

add(fact);

fact.addActionListener(this);

//num.addTextListener(this);

//res.addTextListener(this);

}

public void actionPerformed(ActionEvent e)

{

int a=Integer.parseInt(num.getText());

int f=1;

for(int i=1;i<=a;i++)

{

f=f\*i;

}

res.setText(Integer.toString(f));

}

//public void textValueChanged(TextEvent e)

//{

//}

}

//<applet code="rfactapp" width=1000 height=1000>

//</applet>

BACKGROUND COLOR

import java.awt.\*;

import java.awt.event.\*;

import java.applet.\*;

public class scroll extends Applet implements AdjustmentListener,MouseMotionListener

{

String msg;

int r,g,b;

Scrollbar red,green,blue;

public void init()

{

red=new Scrollbar(Scrollbar.HORIZONTAL,1,1,0,255);

green=new Scrollbar(Scrollbar.HORIZONTAL,1,1,0,255);

blue=new Scrollbar(Scrollbar.HORIZONTAL,1,1,0,255);

add(red);

add(green);

add(blue);

red.addAdjustmentListener(this);

green.addAdjustmentListener(this);

blue.addAdjustmentListener(this);

addMouseMotionListener(this);

}

public void adjustmentValueChanged(AdjustmentEvent ae)

{

repaint();

}

public void mouseDragged(MouseEvent me)

{

repaint();

}

public void mouseMoved(MouseEvent me)

{

}

public void paint(Graphics gr)

{

r=red.getValue();

g=green.getValue();

b=blue.getValue();

Color c=new Color(r,g,b);

setBackground(c);

repaint();

}

}

//<applet code="scroll" width=500 height=500>

//</applet>

ARITHMETIC OPERATIONS

import java.awt.\*;

import java.applet.\*;

import java.awt.event.\*;

public class arith extends Applet implements ActionListener

{

Button b1,b2,b3,b4,b5;

Label l1,l2;

TextField t1,t2;

int a,b,c;

String m;

public void init()

{

setLayout(new GridLayout(5,2,10,120));

b1=new Button("ADD");

b2=new Button("SUB");

b3=new Button("MUL");

b4=new Button("DIV");

b5=new Button("CLEAR");

l1=new Label("ENTER FIRST NUMBER:");

l2=new Label("ENTER SECOND NUMBER:");

t1=new TextField(10);

t2=new TextField(10);

add(l1);

add(t1);

add(l2);

add(t2);

add(b1);

add(b2);

add(b3);

add(b4);

add(b5);

b1.setBounds(100,100,200,200);

//t1.addTextListener(this);

//t2.addTextListener(this);

//t1.addActionListener(this);

// t2.addActionListener(this);

b1.addActionListener(this);

b2.addActionListener(this);

b3.addActionListener(this);

b4.addActionListener(this);

b5.addActionListener(this);

}

public void actionPerformed(ActionEvent ae)

{

String s=ae.getActionCommand();

if(s.equals("ADD"))

{

c=a+b;

}

else if(s.equals("SUB"))

{

c=a-b;

}

else if(s.equals("MUL"))

{

c=a\*b;

}

else if(s.equals("DIV"))

{

c=a/b;

}

repaint();

}

public void paint(Graphics g)

{

a=Integer.parseInt(t1.getText());

b=Integer.parseInt(t2.getText());

m="RESULT:"+c;

g.drawString(m,900,550);

}

}

//<applet code="arith" width=1000 height=600>

//</applet>