## [Java applet program for handling mouse events](http://electrofriends.com/source-codes/software-programs/java/applet-programs/java-applet-program-for-handling-mouse-events/)

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

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

**import** java.applet.\*;

*/\**

*<applet code="Mouse" width=500 height=500>*

*</applet>*

*\*/*

**public** **class** Mouse **extends** Applet

**implements** MouseListener,MouseMotionListener

{

**int** X=0,Y=20;

String msg="MouseEvents";

**public** **void** init()

{

addMouseListener(**this**);

addMouseMotionListener(**this**);

setBackground(Color.black);

setForeground(Color.red);

}

**public** **void** mouseEntered(MouseEvent m)

{

setBackground(Color.magenta);

showStatus("Mouse Entered");

repaint();

}

**public** **void** mouseExited(MouseEvent m)

{

setBackground(Color.black);

showStatus("Mouse Exited");

repaint();

}

**public** **void** mousePressed(MouseEvent m)

{

X=10;

Y=20;

msg="NEC";

setBackground(Color.green);

repaint();

}

**public** **void** mouseReleased(MouseEvent m)

{

X=10;

Y=20;

msg="Engineering";

setBackground(Color.blue);

repaint();

}

**public** **void** mouseMoved(MouseEvent m)

{

X=m.getX();

Y=m.getY();

msg="College";

setBackground(Color.white);

showStatus("Mouse Moved");

repaint();

}

**public** **void** mouseDragged(MouseEvent m)

{

msg="CSE";

setBackground(Color.yellow);

showStatus("Mouse Moved"+m.getX()+" "+m.getY());

repaint();

}

**public** **void** mouseClicked(MouseEvent m)

{

msg="Students";

setBackground(Color.pink);

showStatus("Mouse Clicked");

repaint();

}

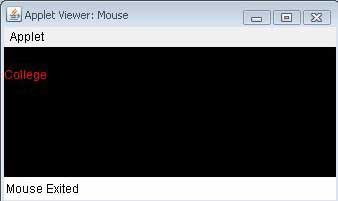
**public** **void** paint(Graphics g)

{

g.drawString(msg,X,Y);

}

}

J

## [Java applet program for handling Keyboard events](http://electrofriends.com/source-codes/software-programs/java/applet-programs/java-applet-program-for-handling-keyboard-events/)

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

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

**import** java.applet.\*;

*/\**

*<applet code="Key" width=300 height=400>*

*</applet>*

*\*/*

**public** **class** Key **extends** Applet

**implements** KeyListener

{

**int** X=20,Y=30;

String msg="KeyEvents--->";

**public** **void** init()

{

addKeyListener(**this**);

requestFocus();

setBackground(Color.green);

setForeground(Color.blue);

}

**public** **void** keyPressed(KeyEvent k)

{

showStatus("KeyDown");

**int** key=k.getKeyCode();

**switch**(key)

{

**case** KeyEvent.VK\_UP:

showStatus("Move to Up");

**break**;

**case** KeyEvent.VK\_DOWN:

showStatus("Move to Down");

**break**;

**case** KeyEvent.VK\_LEFT:

showStatus("Move to Left");

**break**;

**case** KeyEvent.VK\_RIGHT:

showStatus("Move to Right");

**break**;

}

repaint();

}

**public** **void** keyReleased(KeyEvent k)

{

showStatus("Key Up");

}

**public** **void** keyTyped(KeyEvent k)

{

msg+=k.getKeyChar();

repaint();

}

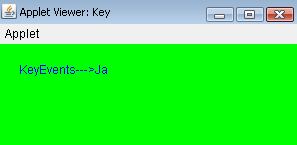
**public** **void** paint(Graphics g)

{

g.drawString(msg,X,Y);

}

}

ava Keyboard programe output

## [Java applet program for calculator](http://electrofriends.com/source-codes/software-programs/java/applet-programs/java-applet-program-for-calculator/)

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

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

**import** java.applet.\*;

*/\**

*<applet code="Cal" width=300 height=300>*

*</applet>*

*\*/*

**public** **class** Cal **extends** Applet

**implements** ActionListener

{

String msg=" ";

**int** v1,v2,result;

TextField t1;

Button b[]=**new** Button[10];

Button add,sub,mul,div,clear,mod,EQ;

**char** OP;

**public** **void** init()

{

Color k=**new** Color(120,89,90);

setBackground(k);

t1=**new** TextField(10);

GridLayout gl=**new** GridLayout(4,5);

setLayout(gl);

**for**(**int** i=0;i<10;i++)

{

b[i]=**new** Button(""+i);

}

add=**new** Button("add");

sub=**new** Button("sub");

mul=**new** Button("mul");

div=**new** Button("div");

mod=**new** Button("mod");

clear=**new** Button("clear");

EQ=**new** Button("EQ");

t1.addActionListener(**this**);

add(t1);

**for**(**int** i=0;i<10;i++)

{

add(b[i]);

}

add(add);

add(sub);

add(mul);

add(div);

add(mod);

add(clear);

add(EQ);

**for**(**int** i=0;i<10;i++)

{

b[i].addActionListener(**this**);

}

add.addActionListener(**this**);

sub.addActionListener(**this**);

mul.addActionListener(**this**);

div.addActionListener(**this**);

mod.addActionListener(**this**);

clear.addActionListener(**this**);

EQ.addActionListener(**this**);

}

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

{

String str=ae.getActionCommand();

**char** ch=str.charAt(0);

**if** ( Character.isDigit(ch))

t1.setText(t1.getText()+str);

**else**

**if**(str.equals("add"))

{

v1=Integer.parseInt(t1.getText());

OP='+';

t1.setText("");

}

**else** **if**(str.equals("sub"))

{

v1=Integer.parseInt(t1.getText());

OP='-';

t1.setText("");

}

**else** **if**(str.equals("mul"))

{

v1=Integer.parseInt(t1.getText());

OP='\*';

t1.setText("");

}

**else** **if**(str.equals("div"))

{

v1=Integer.parseInt(t1.getText());

OP='/';

t1.setText("");

}

**else** **if**(str.equals("mod"))

{

v1=Integer.parseInt(t1.getText());

OP='%';

t1.setText("");

}

**if**(str.equals("EQ"))

{

v2=Integer.parseInt(t1.getText());

**if**(OP=='+')

result=v1+v2;

**else** **if**(OP=='-')

result=v1-v2;

**else** **if**(OP=='\*')

result=v1\*v2;

**else** **if**(OP=='/')

result=v1/v2;

**else** **if**(OP=='%')

result=v1%v2;

t1.setText(""+result);

}

**if**(str.equals("clear"))

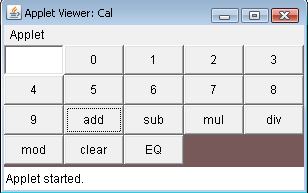
{

t1.setText("");

}

}

}



**Java applet program for interest rate calculation**

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

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

**import** java.applet.\*;

*/\**

*<applet code="Loan" width=300 height=300>*

*</applet>*

*\*/*

**public** **class** Loan **extends** Applet

**implements** ActionListener,ItemListener

{

**double** p,r,n,total,i;

String param1;

**boolean** month;

Label l1,l2,l3,l4;

TextField t1,t2,t3,t4;

Button b1,b2;

CheckboxGroup cbg;

Checkbox c1,c2;

String str;

**public** **void** init()

{

l1=**new** Label("Balance Amount",Label.LEFT);

l2=**new** Label("Number of Months",Label.LEFT);

l3=**new** Label("Interest Rate",Label.LEFT);

l4=**new** Label("Total Payment",Label.LEFT);

t1=**new** TextField(5);

t2=**new** TextField(5);

t3=**new** TextField(15);

t4=**new** TextField(20);

b1=**new** Button("OK");

b2=**new** Button("Delete");

cbg=**new** CheckboxGroup();

c1=**new** Checkbox("Month Rate",cbg,**true**);

c2=**new** Checkbox("Annual Rate",cbg,**true**);

t1.addActionListener(**this**);

t2.addActionListener(**this**);

t3.addActionListener(**this**);

t4.addActionListener(**this**);

b1.addActionListener(**this**);

b2.addActionListener(**this**);

c1.addItemListener(**this**);

c2.addItemListener(**this**);

add(l1);

add(t1);

add(l2);

add(t2);

add(l3);

add(t3);

add(l4);

add(t4);

add(c1);

add(c2);

add(b1);

add(b2);

}

**public** **void** itemStateChanged(ItemEvent ie)

{

}

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

{

str=ae.getActionCommand();

**if**(str.equals("OK"))

{

p=Double.parseDouble(t1.getText());

n=Double.parseDouble(t2.getText());

r=Double.parseDouble(t3.getText());

**if**(c2.getState())

{

n=n/12;

}

i=(p\*n\*r)/100;

total=p+i;

t4.setText(" "+total);

}

**else** **if**(str.equals("Delete"))

{

t1.setText(" ");

t2.setText(" ");

t3.setText(" ");

t4.setText(" ");

}

}

}

