**8. Applet**

import java.awt.\*;

import java.applet.\*;

import java.awt.event.\*;

public class student extends Frame implements ActionListener

{String msg;

Button b1=new Button("save");

Label l11=new Label("Student details",Label.CENTER);

Label l1=new Label("Name:",Label.LEFT);

Label l2=new Label("age:",Label.LEFT);

Label l3=new Label("Sex(M/F):",Label.LEFT);

Label l4=new Label("Address:",Label.LEFT);

Label l5=new Label("Course:",Label.LEFT);

Label l6=new Label("Semester:",Label.LEFT);

Label l7=new Label("",Label.RIGHT);

TextField t1=new TextField();

Choice c1=new Choice();

CheckboxGroup cbg=new CheckboxGroup();

Checkbox ck1=new Checkbox("Male",false,cbg);

Checkbox ck2=new Checkbox("Female",false,cbg);

TextArea t2=new TextArea("",180,90,TextArea.SCROLLBARS\_VERTICAL\_ONLY);

Choice course=new Choice();

Choice sem=new Choice();

Choice age=new Choice();

public student()

{addWindowListener(new myWindowAdapter());

setBackground(Color.cyan);

setForeground(Color.black);

setLayout(null);

add(l11);

add(l1);

add(l2);

add(l3);

add(l4);

add(l5);

add(l6);

add(l7);

add(t1);

add(t2);

add(ck1);

add(ck2);

add(course);

add(sem);

add(age);

add(b1);

b1.addActionListener(this);

add(b1);

course.add("BSc c.s");

course.add("BSc maths");

course.add("BSc physics");

course.add("BA English");

course.add("BCOM");

sem.add("1");

sem.add("2");

sem.add("3");

sem.add("4");

sem.add("5");

sem.add("6");

age.add("17");

age.add("18");

age.add("19");

age.add("20");

age.add("21");

l1.setBounds(25,65,90,20);

l2.setBounds(25,90,90,20);

l3.setBounds(25,120,90,20);

l4.setBounds(25,185,90,20);

l5.setBounds(25,260,90,20);

l6.setBounds(25,290,90,20);

l7.setBounds(25,260,90,20);

l11.setBounds(10,40,280,20);

t1.setBounds(120,65,170,20);

t2.setBounds(120,185,170,60);

ck1.setBounds(120,120,50,20);

ck2.setBounds(170,120,60,20);

course.setBounds(120,260,100,20);

sem.setBounds(120,290,50,20);

age.setBounds(120,90,50,20);

b1.setBounds(120,350,50,30);

}

public void paint(Graphics g)

{g.drawString(msg,200,450);}

public void actionPerformed(ActionEvent ae)

{if(ae.getActionCommand().equals("save"))

{msg="Student details saved!";

setForeground(Color.red); }

}

public static void main(String g[])

{student stu=new student();

stu.setSize(new Dimension(500,500));

stu.setTitle("student registration");

stu.setVisible(true);

}

}

class myWindowAdapter extends WindowAdapter

{public void windowClosing(WindowEvent we)

{

System.exit(0);

} }

**9.Shapes**

import java.io.\*;

import java.awt.\*;

import java.awt.event.\*;

import java.applet.\*;

class window extends Frame implements ActionListener

{

public window(String title)

{

super(title);

setLayout(new FlowLayout(FlowLayout.LEFT));

}

public void paint(Graphics g)

{

g.drawString( " Line Drawing", 10,10);

g.drawLine(100,10,230,140);

g.drawLine(100, 140,230,10);

g.drawString("Rectangle Drawing",50,50);

g.drawRect(10,60,40,30);

g.fillRect(60,10,30,80);

g.drawRoundRect(10,100,80,50,10,10);

g.fillRoundRect(20,110,60,30,5,5);

g.drawString("Ovel Drawing", 150,150);

g.drawOval(200,200,400,320);

g.setColor(Color.green);

g.fillOval(300,300,400,400);

addWindowListener(new MyWindowAdapter());

show();

}

public void actionPerformed(ActionEvent e)

{

repaint();

}

class MyWindowAdapter extends WindowAdapter

{

public void windowClosing(WindowEvent e)

{

System.exit(0);

}

}

}

class shapes

{

public static void main(String args[ ])

{

window obj = new window("Drawing Shapes");

obj.setVisible(true);

obj.setSize(600,600);

}

}

**6.PACKAGES**

package fact;

public class factorial

{

public void fact(int n)

{

int i,fact=1;

for (i=1;i<=n;i++)

{

fact=fact\*i;

}System.out.println("The factorial of" + n + "is:" +fact);

}

}

import fact.\*;

import java.io.\*;

import java.io.DataInputStream;

class fcal

{

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

{

int n;

DataInputStream in = new DataInputStream(System.in);

System.out.println("Enter the N value:");

n = Integer.parseInt(in.readLine( ));

factorial f = new factorial( );

f.fact(n);

}

}