

```
import java.util.*;
class Example36psp
{
    public static void main(String gg[])
    {
        Calendar c;
        c=Calendar.getInstance();
        System.out.println(c.get(Calendar.DATE));
        System.out.println(c.get(Calendar.MONTH));
        System.out.println(c.get(Calendar.YEAR));
        System.out.println(c.get(Calendar.HOUR));
        System.out.println(c.get(Calendar.MINUTE));
        System.out.println(c.get(Calendar.SECOND));
        System.out.println(c.get(Calendar.DAY_OF_WEEK));
    }
}
```

```
import java.util.*;
class Example33psp
{
    public static void main(String gg[])
    {
        Date d=new Date();
        int dayOfMonth=d.getDate();
        int month=d.getMonth()+1;
        int year=d.getYear()+1900;
        System.out.println("Today is "+dayOfMonth+"/"+month+"/"+year);
        int hour=d.getHours();
        int minutes=d.getMinutes();
        int seconds=d.getSeconds();
        System.out.println("Time is "+hour+":"+minutes+":"+seconds);
    }
}
```

```
import java.awt.*;
class awt1 extends Frame
{
    private Label l1,l2;
    private TextField t1,t2;
    private Button b1,b2;
    awt1()
    {
        super("This is my first GUI Example");
        l1=new Label("Enter first number");
        l2=new Label("Enter second number");
        t1=new TextField(10);
        t2=new TextField(10);
        b1=new Button("Add");
```

```
b2=new Button("Cancel");
FlowLayout f;
f=new FlowLayout();
setLayout(f);
add(l1);
add(t1);
add(l2);
add(t2);
add(b1);
add(b2);
setLocation(10,10);
setSize(400,400);
setVisible(true);
}
}
class example19psp
{
public static void main(String gg[])
{
awt1 a;
a=new awt1();
}
}
import java.awt.*;
class awt2 extends Frame
{
private Label l1,l2;
private TextField t1,t2;
private Button b1,b2;
awt2()
{
setTitle("This is my second GUI Example");
l1=new Label("Enter first number");
l2=new Label("Enter second number");
t1=new TextField(10);
t2=new TextField(10);
b1=new Button("Add");
b2=new Button("Cancel");
GridLayout g;
g=new GridLayout(3,2);
setLayout(g);
add(l1);
add(t1);
add(l2);
add(t2);
add(b1);
```

```
add(b2);
setLocation(10,10);
setSize(350,200);
setVisible(true);
}
}
class example20psp
{
public static void main(String gg[])
{
awt2 a;
a=new awt2();
}
}
```

```
import java.awt.*;
class awt3 extends Frame
{
private Button b1,b2,b3,b4,b5;
awt3()
{
b1=new Button("One");
b2=new Button("Two");
b3=new Button("Three");
b4=new Button("Four");
b5=new Button("Five");
setLayout(new BorderLayout());
add(b1,BorderLayout.NORTH);
add(b2,BorderLayout.SOUTH);
add(b3,BorderLayout.EAST);
add(b4,BorderLayout.WEST);
add(b5,BorderLayout.CENTER);
```

```
setLocation(10,10);
setSize(400,300);
setVisible(true);
}
}
class example21psp
{
public static void main(String g[])
{
awt3 a=new awt3();
}
}
```

```
import java.awt.*;
class awt4 extends Frame
```

```
{
private Choice c;
private Button b;
awt4()
{
c=new Choice();
c.add("Pune");
c.add("Goa");
c.add("Indore");
c.add("Ujjain");
b=new Button("Proceed");
setLayout(new FlowLayout());
add(c);
add(b);
setLocation(10,10);
setSize(350,200);
setVisible(true);
}
}
class example22psp
{
public static void main(String g[])
{
awt4 a=new awt4();
}
}
```

```
import java.awt.*;
class awt5 extends Frame
{
private List opt;
private Button b;
awt5()
{
opt=new List(4,true);
opt.add("Pune");
opt.add("Goa");
opt.add("Mumbai");
opt.add("Ujjain");
opt.add("Dewas");
opt.add("Bhopal");
opt.add("Agar");
opt.add("Indore");
b=new Button("Proceed");
setLayout(new FlowLayout());
add(opt);
```

```
add(b);
setLocation(10,10);
setSize(350,200);
setVisible(true);
}
}
class example23psp
{
public static void main(String g[])
{
awt5 a=new awt5();
}
}
```

```
import java.awt.*;
class awt6 extends Frame
{
private Checkbox c1,c2,c3;
private Label h;
private Button b;
awt6()
{
h=new Label("Hobbies");
c1=new Checkbox("Swimming");
c2=new Checkbox("Stamp Collection");
c3=new Checkbox("Match Box Collection");
b=new Button("Proceed");
setLayout(new FlowLayout());
add(h);
add(c1);
add(c2);
add(c3);
add(b);
setLocation(10,10);
setSize(400,400);
setVisible(true);
}
}
class example24psp
{
public static void main(String gg[])
{
awt6 a=new awt6();
}
}
```

```
import java.awt.*;
```

```
class awt7 extends Frame
{
private Label s,n;
private Checkbox r1,r2,r3;
private Checkbox r4,r5;
private CheckboxGroup cg1,cg2;
private Button b;
awt7()
{
s=new Label("Sex");
cg1=new CheckboxGroup();
r1=new Checkbox("Male",cg1,true);
r2=new Checkbox("Female",cg1,false);
n=new Label("Nationality");
cg2=new CheckboxGroup();
r3=new Checkbox("Indian",cg2,true);
r4=new Checkbox("American",cg2,true);
r5=new Checkbox("Australian",cg2,true);
b=new Button("Proceed");
setLayout(new FlowLayout());
add(s);
add(r1);
add(r2);
add(n);
add(r3);
add(r4);
add(r5);
add(b);
setLocation(10,10);
setSize(400,400);
setVisible(true);
}
}
class example25psp
{
public static void main(String g[])
{
awt7 a=new awt7();
}
}
import java.awt.*;
class awt8 extends Frame
{
private Label rollNumberLabel,nameLabel,sexLabel;
private Label moduleTitleLabel,cityLabel;
private Label statusBarLabel;
```

```
private TextField rollNumber,name;
private Checkbox male,female;
private CheckboxGroup sex;
private Choice city;
private Button save,cancel;
awt8()
{
    moduleTitleLabel=new Label("Student ( Add Module )");
    rollNumberLabel=new Label("Roll Number");
    nameLabel=new Label("Name");
    sexLabel=new Label("Sex");
    cityLabel=new Label("City");
    java.util.Date dt=new java.util.Date();
    String today=dt.getDate()+"/"+(dt.getMonth()+1)+"/"+(dt.getYear()+1900);
    statusBarLabel=new Label("Date : "+today);
    rollNumber=new TextField(10);
    name=new TextField(20);
    sex=new CheckboxGroup();
    male=new Checkbox("Male",sex,true);
    female=new Checkbox("Female",sex,false);
    city=new Choice();
    city.add("Pune");
    city.add("Mumbai");
    city.add("Goa");
    city.add("Delhi");
    save=new Button("Save");
    cancel=new Button("Cancel");
    Panel p1=new Panel();
    p1.setLayout(new GridLayout(1,3));
    p1.add(new Label("  "));
    p1.add(moduleTitleLabel);
    p1.add(new Label("  "));
    Panel p2=new Panel();
    p2.setLayout(new GridLayout(1,2));
    p2.add(male);
    p2.add(female);
    Panel p3=new Panel();
    p3.setLayout(new GridLayout(4,2));
    p3.add(rollNumberLabel);
    p3.add(rollNumber);
    p3.add(nameLabel);
    p3.add(name);
    p3.add(sexLabel);
    p3.add(p2);
    p3.add(cityLabel);
    p3.add(city);
    Panel p4=new Panel();
```

```

p4.setLayout(new GridLayout(1,5));
p4.add(new Label("  "));
p4.add(save);
p4.add(new Label("  "));
p4.add(cancel);
p4.add(new Label("  "));
Panel p5=new Panel();
p5.setLayout(new BorderLayout());
p5.add(p3,BorderLayout.CENTER);
p5.add(p4,BorderLayout.SOUTH);
setLayout(new BorderLayout());
add(p1,BorderLayout.NORTH);
add(p5,BorderLayout.CENTER);
add(statusBarLabel,BorderLayout.SOUTH);
setLocation(10,10);
setSize(400,250);
setVisible(true);
}
}
class example26psp
{
public static void main(String gg[])
{
awt8 a=new awt8();
}
}
import java.awt.*;
import java.util.*;
class panel1 extends Panel
{
private Label moduleTitleLabel;
panel1()
{
moduleTitleLabel=new Label("Student ( Add Module )");
setLayout(new GridLayout(1,3));
add(new Label("  "));
add(moduleTitleLabel);
add(new Label("  "));
}
}
class panel2 extends Panel
{
private Checkbox male,female;
private CheckboxGroup sex;
panel2()
{

```



```
sex=new CheckboxGroup();
male=new Checkbox("Male",sex,true);
female=new Checkbox("Female",sex,false);
setLayout(new GridLayout(1,2));
add(male);
add(female);
}
}
class panel3 extends Panel
{
private Label rollNumberLabel,nameLabel,sexLabel;
private Label cityLabel;
private TextField rollNumber,name;
private Choice city;
private panel2 sexPanel;
panel3()
{
rollNumberLabel=new Label("Roll Number");
nameLabel=new Label("Name");
sexLabel=new Label("Sex");
cityLabel=new Label("City");
rollNumber=new TextField(10);
name=new TextField(20);
city=new Choice();
city.add("Pune");
city.add("Mumbai");
city.add("Goa");
city.add("Delhi");
sexPanel=new panel2();
setLayout(new GridLayout(4,2));
add(rollNumberLabel);
add(rollNumber);
add(nameLabel);
add(name);
add(sexLabel);
add(sexPanel);
add(cityLabel);
add(city);
}
}
class panel4 extends Panel
{
private Button save,cancel;
panel4()
{
save=new Button("Save");
cancel=new Button("Cancel");
```

```

setLayout(new GridLayout(1,5));
add(new Label("  "));
add(save);
add(new Label("  "));
add(cancel);
add(new Label("  "));
}
}
class panel5 extends Panel
{
private panel3 formPanel;
private panel4 buttonPanel;
panel5()
{
setLayout(new BorderLayout());
formPanel=new panel3();
buttonPanel=new panel4();
add(formPanel,BorderLayout.CENTER);
add(buttonPanel,BorderLayout.SOUTH);
}
}

class awt9 extends Frame
{
private panel1 titlePanel;
private panel5 entryPanel;
private Label statusBarLabel;
awt9()
{
titlePanel=new panel1();
entryPanel=new panel5();
Calendar c=Calendar.getInstance();
String today=c.get(Calendar.DATE)+"/"+(c.get(Calendar.MONTH)+1)+"/"+c.get(Calendar.YEAR);

statusBarLabel=new Label("Date : "+today);
setLayout(new BorderLayout());
add(titlePanel,BorderLayout.NORTH);
add(entryPanel,BorderLayout.CENTER);
add(statusBarLabel,BorderLayout.SOUTH);
setLocation(10,10);
setSize(400,250);
setVisible(true);
}
}
class example27psp
{

```

```
public static void main(String gg[])
{
    awt9 a=new awt9();
}
}

import java.awt.*;
class aaa extends Frame
{
    private Label l1,l2,l3,l4,l5,l6,l7;
    private TextField t1,t2;
    private Checkbox r1,r2,r3,r4,r5;
    private CheckboxGroup g1,g2;
    private Checkbox c1,c2,c3;
    private Choice cmb;
    private List lst;
    private Button b,c;
    aaa()
    {
        l1=new Label("Enter roll number");
        t1=new TextField(20);
        l2=new Label("Enter name");
        t2=new TextField();
        l3=new Label("Select City");
        g1=new CheckboxGroup();
        r1=new Checkbox("Ujjain",g1,true);
        r2=new Checkbox("Indore",g1,false);
        r3=new Checkbox("Dewas",g1,false);
        l4=new Label("Select Gender");
        g2=new CheckboxGroup();
        r4=new Checkbox("Male",g2,true);
        r5=new Checkbox("Female",g2,false);
        l5=new Label("Select your hobbies");
        c1=new Checkbox("Reading");
        c2=new Checkbox("Painting");
        c3=new Checkbox("Singing");
        l6=new Label("Select Mother tounge");
        cmb=new Choice();
        cmb.add("English");
        cmb.add("Hindi");
        cmb.add("Marathi");
        cmb.add("Tamil");
        l7=new Label("Visited");
        lst=new List(4,true); // 4 for how many opt to display
                           // true to allow multiple selection
        lst.add("Mauritus");
        lst.add("Singapore");
    }
}
```

```

lst.add("Bangkok");
lst.add("Australia");
lst.add("England");
lst.add("UK");
b=new Button("Save");
c=new Button("Cancel");
setLayout(null);
l1.setBounds(30,40,100,25); // x,y,width,height (x,y on frame)
t1.setBounds(140,40,100,25);
l2.setBounds(30,90,100,25);
t2.setBounds(140,90,250,25);
// set bounds of remaining Components
// don't set bounds for CheckboxGroup and don't add CheckboxGroup
add(l1);
add(t1);
add(l2);
add(t2);
// add remaining components
setLocation(10,50); // x and y location on desktop
setSize(500,400); // width , height of frame
setVisible(true);
}
}
class Example27psp
{
public static void main(String gg[])
{
aaa a;
a=new aaa();
}
}
import java.awt.*;
import java.awt.event.*;
class aaa extends Frame
{
private Label l1,l2,l3,l4,l5;
private TextField t1,t2;
private Button b1;
aaa()
{
l1=new Label("First number");
l2=new Label("Second number");
t1=new TextField(10);
t2=new TextField(10);
l3=new Label("Total");
l4=new Label("
");

```

```
b1=new Button("Add");
l5=new Label(" ");
setLayout(new GridLayout(4,2));
add(l1);
add(t1);
add(l2);
add(t2);
add(l3);
add(l4);
add(b1);
add(l5);
b1.addActionListener(new ActionListener(){
public void actionPerformed(ActionEvent ev)
{
if(t1.getText().length()==0)
{
l5.setText("No input");
return;
}
if(t2.getText().length()==0)
{
l5.setText("No input");
return;
}
int x,y,z;
try
{
x=Integer.parseInt(t1.getText());
y=Integer.parseInt(t2.getText());
}catch(NumberFormatException nfe)
{
l5.setText("Invalid input");
return;
}
z=x+y;
l5.setText(" ");
l4.setText(String.valueOf(z));
});
this.addWindowListener(new WindowAdapter(){
public void windowClosing(WindowEvent ev)
{
System.exit(0);
}
});
setLocation(10,10);
setSize(400,200);
```

```
setVisible(true);  
}  
}  
class psp  
{  
public static void main(String gg[])  
{  
aaa a=new aaa();  
}  
}
```

Read file handling (C Programming)
for Java File handling
