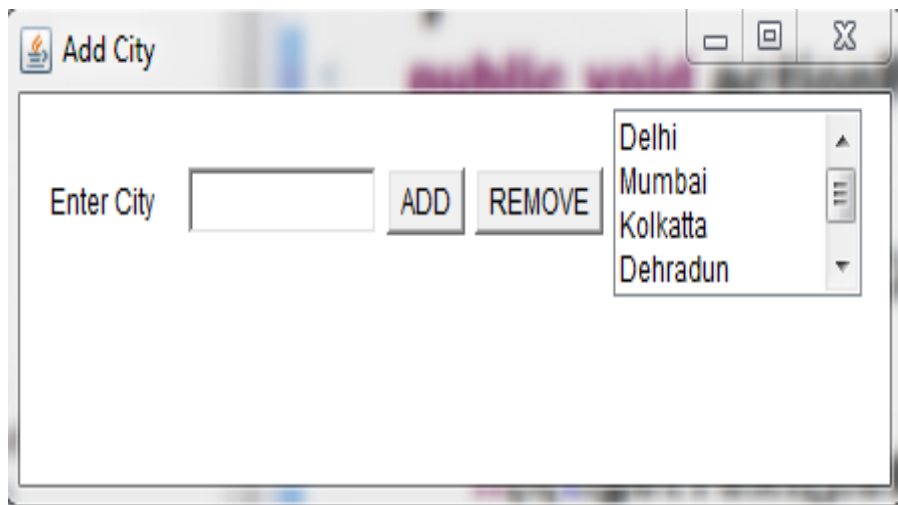


1. Write a JAVA code for the following Snapshot.



```
package unit1;
import java.awt.event.*;
import java.awt.*;
public class AddCity extends Frame implements ActionListener
{

    //java.util.Vector V=new java.util.Vector();
    //JPanel upperPanel,lowerPanel;
    //FlowLayout panellayout;
    //GridLayout winLayout;
    Label L;
    TextField T;
    Button B;
    Button btnremove;
    List list;
    public AddCity()
    {
        Color clr1 = new Color(117,217,150);
        setBackground(clr1);
        setSize(500,500);
        setLayout(new FlowLayout());

        L=new Label("Enter Cities to be Added");
        T=new TextField(10);
        B=new Button("ADD>>");
        B.addActionListener(this);
        btnremove = new Button("Remove");
        btnremove.addActionListener(this);
        list=new List();
        addWindowListener(new WindowAdapter()
        {
            public void windowClosing(WindowEvent e)
            {
                System.exit(0);
            }
        });
    }
}
```

```

        }
    });
    add(L);
    add(T);
    add(B);
    add(btnremove);
add(list);
setVisible(true);
}

public void actionPerformed(ActionEvent ae)
{
    String ans;
    ans= ae.getActionCommand();
    if(ans.equals("ADD>>"))
    {
        if(!(T.getText().equals("")))
        {
            list.add(T.getText());
            T.setText("");
        }
    }
    else
    {
        list.remove(list.getSelectedIndex());
    }
}

public static void main(String args[])
{
    new AddCity();
}
}

```

2. Store some country names and their capitals. Ask the user to select a country and its capital from given two lists. If the match is correct, display “Correct answer”, otherwise display error message and tell the correct answer.

```
import java.awt.*;
import java.awt.event.*;
public class ListDemo extends Frame implements ActionListener
{
    List lstCountry, lstCapital;
    String msg = "";
    Label lblresult;
    Button btnCheck;
    public ListDemo()
    {
        setSize(450,500);
        setLayout(new FlowLayout());
        lstCountry = new List(5);
        lstCapital = new List(5);

        lstCountry.add("India");
        lstCountry.add("Japan");
        lstCountry.add("Pakistan");
        lstCountry.add("Nepal");

        lstCapital.add("New Delhi");
        lstCapital.add("Tokyo");
        lstCapital.add("Kathmandu");
        lstCapital.add("Islamabad");
        lblresult = new Label(" ");
        btnCheck = new Button("Check..");
        // add lists to window
        add(lstCountry);
        add(lstCapital);
        add(btnCheck);
        add(lblresult);
        // register to receive action events
        //lstCountry.addActionListener(this);
        //lstCapital.addActionListener(this);
        btnCheck.addActionListener(this);
        setVisible(true);
    }

    public void actionPerformed(ActionEvent ae)
    {
        String msg2;
        msg = "Current Country: ";
        msg += lstCountry.getSelectedItem();

        msg2 = "Current Capital: ";
        msg2 += lstCapital.getSelectedItem();
    }
}
```

```
lblresult.setText(msg + " " + msg2);
```

```
}
```

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

```
{
```

```
    new ListDemo();
```

```
}
```

```
}
```

3. Create a GUI to add two numbers

```
package unit1;
import java.awt.*;
import java.awt.event.*;
public class SumDemo extends Frame implements ActionListener
{
    Label lblnum1, lblnum2, lblresult;
    TextField txtnum1, txtnum2;
    Button btnsum, btnmul, btnclear;
    SumDemo()
    {
        setSize(450,450);
        setTitle("My First AWT Prog");
        FlowLayout fl = new FlowLayout();
        setLayout(fl);
        lblnum1 = new Label("Enter Num1:");
        lblnum2 = new Label("Enter Num2:");
        lblresult = new Label("      ");
        txtnum1 = new TextField(10);
        txtnum2 = new TextField(10);
        btnsum = new Button("Sum");
        btnmul = new Button("Multiply");
        btnclear = new Button("Clear");
        add(lblnum1);
        add(txtnum1);
        add(lblnum2);
        add(txtnum2);
        add(btnsum);
        add(btnmul);
        add(btnclear);
        btnsum.addActionListener(this);
        btnmul.addActionListener(this);
        btnclear.addActionListener(this);
        add(lblresult);
        addWindowListener(new WindowAdapter()
        {
            public void windowClosing(WindowEvent e)
            {
                System.exit(0);
            }
        });

        setVisible(true);
    }
    public static void main(String args[])
    {
        SumDemo ob = new SumDemo();
    }
}
```

```

public void actionPerformed(ActionEvent e)
{
    // TODO Auto-generated method stub
    String ans = e.getActionCommand();

    int a,b;
    if(ans.equals("Sum"))
    {
        a = Integer.parseInt(txtnum1.getText());
        b = Integer.parseInt(txtnum2.getText());
        lblresult.setText("Sum =" + (a+b));
    }
    else if(ans.equals("Multiply"))
    {
        a = Integer.parseInt(txtnum1.getText());
        b = Integer.parseInt(txtnum2.getText());
        lblresult.setText("Multiply =" + (a*b));
    }
    else
    {
        txtnum1.setText("");
        txtnum2.setText("");
    }
}
}

```

4. Demonstration of Checkbox/radiobutton Demo

```

package unit1;

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

public class CheckBoxDemo extends Frame implements ItemListener
{
    Checkbox winXP, winVista, solaris, mac;
    Label l1,l2,l3,l4;
    CheckboxGroup gb;
    //TextArea txtfeedback;

    public CheckBoxDemo()
    {
        setLayout(new FlowLayout());
    }
}

```

```
gb = new CheckboxGroup();

winXP = new Checkbox("Windows XP",true,gb);

winVista = new Checkbox("Windows Vista",gb,false);

solaris = new Checkbox("Solaris",gb,false);

mac = new Checkbox("Mac OS",gb,false);

//txtfeedback = new TextArea("",10,40);

add(winXP);

add(winVista);

add(solaris);

add(mac);

//add(txtfeedback);

winXP.addItemListener(this);

winVista.addItemListener(this);

solaris.addItemListener(this);

mac.addItemListener(this);

addWindowListener(new WindowAdapter()
{
    public void windowClosing(WindowEvent e)
    {
        System.exit(0);
    }
});
```

```
l1 = new Label();

add(l1);

l2 = new Label();

add(l2);

l3 = new Label();

add(l3);
```

```

l4 = new Label();

add(l4);

setSize(350,350);

setVisible(true);

}

public void itemStateChanged(ItemEvent ie)
{

    // l1.setText(gb.getSelectedCheckbox().getState() + "");

    /*Checkbox ob = gb.getSelectedCheckbox();

    String s = ob.getLabel();

    l1.setText(s); */

    l1.setText(" Windows XP: " + winXP.getState() );

    l2.setText(" Windows Vista: " + winVista.getState() );

    l3.setText(" Solaris: " + solaris.getState());

    l4.setText(" Mac OS: " + mac.getState());

}

public static void main(String args[])
{

    new CheckBoxDemo();

}

}

```


5. Demonstration of GridLayout

```
package unit1;

import java.awt.*;
import java.awt.event.*;
class GridLayoutDemo2 extends Frame
{

    public GridLayoutDemo2()
    {
        // Set the frame properties
        setTitle("GridLayout Demo");
        setSize(400,400);
        GridLayout gl = new GridLayout(3,3);
        setLayout(gl);
        Panel p1 = new Panel();
        p1.setLayout(new GridLayout(1,4));
        add(new Button("Button1"));
        add(new Button("Button2"));
        add(new Button("Button3"));

        p1.add(new Button("Button4"));
        p1.add(new Button("Button5"));
        p1.add(new Button("Button6"));
        p1.add(new Button("Button7"));
        add(p1);

        add(new Button("Button8"));
        add(new Button("Button9"));
        add(new Button("Button9"));
        add(new Button("Button10"));
        add(new Button("Button11"));

        setVisible(true);
    }
    public static void main(String args[])
    {
        new GridLayoutDemo2();
    }
}
```

6. Demonstration of BorderLayout

```
package unit1;
import java.awt.*;
public class BorderLayout2 extends Frame
{
    BorderLayout2()
    {
        setSize(300,300);
        setVisible(true);
        setLayout(new BorderLayout());
        //Button btnNorth = new Buttton("This is
acroos the top.");
        //add(btnNorth, BorderLayout.NORTH);
        Button b1 = new Button("This is acroos the
top.");
        add(b1, BorderLayout.NORTH);

        // add(new Button("This is acroos the top."),
BorderLayout.NORTH);
        add(new Button("The footer message might go
here."), BorderLayout.SOUTH);
        add(new Button("Right"), BorderLayout.EAST);
        add(new Button("Left"), BorderLayout.WEST);

        String msg = "The reasonable man adapts" +
                    "hmself to the world;\n"      +
                    "the unreasonable one persists in
" +
                    "trying to adapt the world to
himself.\n" +
                    "Therefore all progress depends "
+
                    " on the unreasonable man.\n\n"
+
                    "          George Bernard Shaw\n\n"
";

        TextArea txtArea = new TextArea(msg);
        add(txtArea, BorderLayout.CENTER);

        //add(new TextArea(msg), BorderLayout.CENTER);
```

```
    }  
    public static void main(String a[])  
    {  
        new BorderLayout2();  
    }  
}
```

7. User Id Password Program

```
package unit1;
import java.awt.*;
import java.awt.event.*;
public class PasswordDemo extends Frame implements
ActionListener
{
    Label l1,l2,l3;
    TextField t1,t2;
    Button b1;
    Panel p1,p2,p3;
    PasswordDemo()
    {
        setLayout(new GridLayout(3,1));
        Panel p1 = new Panel();
        GridLayout g1 = new GridLayout(2,2);
        p1.setLayout(g1);
        p2=new Panel(new FlowLayout());
        p3=new Panel(new FlowLayout());
        l1=new Label("Username");
        t1=new TextField(30);
        l2=new Label("Password");
        t2=new TextField(30);
        t2.setEchoChar('*');
        b1=new Button("Log In");
        l3=new Label("
");

        p1.add(l1);
        p1.add(t1);
        p1.add(l2);
        p1.add(t2);

        p2.add(b1);
        p3.add(l3);

        add(p1);
        add(p2);
        add(p3);

        b1.addActionListener(this);
```

```

        setTitle("Log In");
        setSize(400,400);
        setVisible(true);
        addWindowListener(new WindowAdapter()
        {
            public void windowClosing(WindowEvent e)
            {
                System.exit(0);
            }
        });
    }
    public static void main(String args[])
    {
        new PasswordDemo();
    }
    public void actionPerformed(ActionEvent e)
    {
        // TODO Auto-generated method stub
        String u1,p1;
        u1=t1.getText();
        p1=t2.getText();
        if((u1.equals("mahesh"))&&(p1.equals("gehu")))
        {
            l3.setText("Welcome User "+ u1);
        }
        else
        {
            l3.setText("Either Username or Password is
Wrong... Please Try Again!!!");
        }
    }
}

```