

Simple Calculator

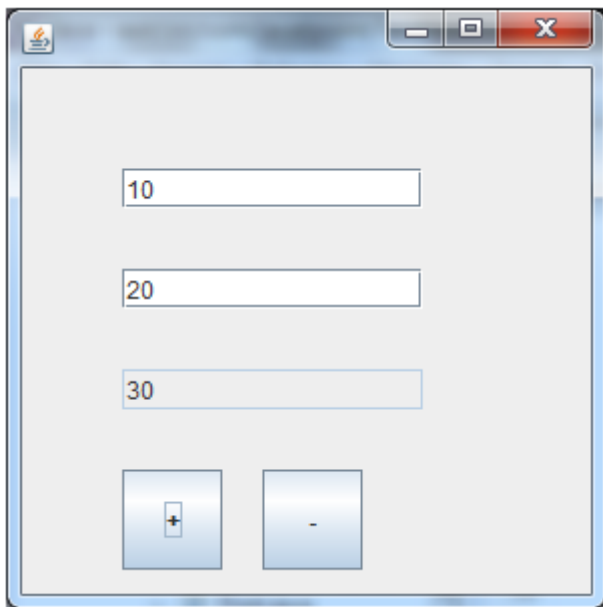
```
1. import javax.swing.*;
2. import java.awt.event.*;
3. public class TextFieldExample implements ActionListener{
4.     JTextField tf1,tf2,tf3;
5.     JButton b1,b2;
6.     TextFieldExample(){
7.         JFrame f= new JFrame();
8.         tf1=new JTextField();
9.         tf1.setBounds(50,50,150,20);
10.        tf2=new JTextField();
11.        tf2.setBounds(50,100,150,20);
12.        tf3=new JTextField();
13.        tf3.setBounds(50,150,150,20);
14.        tf3.setEditable(false);
15.        b1=new JButton("+");
16.        b1.setBounds(50,200,50,50);
17.        b2=new JButton("-");
18.        b2.setBounds(120,200,50,50);
19.        b1.addActionListener(this);
20.        b2.addActionListener(this);
21.        f.add(tf1);f.add(tf2);f.add(tf3);f.add(b1);f.add(b2);
22.        f.setSize(300,300);
23.        f.setLayout(null);
24.        f.setVisible(true);
25.    }
26.    public void actionPerformed(ActionEvent e) {
27.        String s1=tf1.getText();
28.        String s2=tf2.getText();
29.        int a=Integer.parseInt(s1);
30.        int b=Integer.parseInt(s2);
31.        int c=0;
32.        if(e.getSource()==b1){
33.            a. c=a+b;
34.        }else if(e.getSource()==b2){
35.            a. c=a-b;
```

```

35. String result=String.valueOf(c);
36. tf3.setText(result);
37. }
38. public static void main(String[] args) {
39. new TextFieldExample();
40. } }

```

Output:



Program 2: Write a Java Program to count number of words and characters from TextArea entered by user

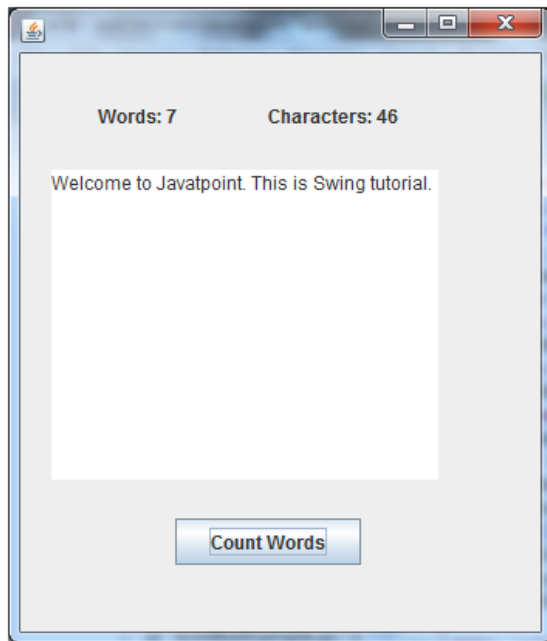
```

1. import javax.swing.*;
2. import java.awt.event.*;
3. public class TextAreaExample implements ActionListener{
4.     JLabel l1,l2;
5.     JTextArea area;
6.     JButton b;
7.     TextAreaExample() {
8.         JFrame f= new JFrame();
9.         l1=new JLabel();
10.        l1.setBounds(50,25,100,30);

```

```
11. l2=new JLabel();
12. l2.setBounds(160,25,100,30);
13. area=new JTextArea();
14. area.setBounds(20,75,250,200);
15. b=new JButton("Count Words");
16. b.setBounds(100,300,120,30);
17. b.addActionListener(this);
18. f.add(l1);f.add(l2);f.add(area);f.add(b);
19. f.setSize(450,450);
20. f.setLayout(null);
21. f.setVisible(true);
22. }
23. public void actionPerformed(ActionEvent e){
24.     String text=area.getText();
25.     String words[]=text.split("\\s");
26.     l1.setText("Words: "+words.length);
27.     l2.setText("Characters: "+text.length());
28. }
29. public static void main(String[] args) {
30.     new TextAreaExample();
31. }
32. }
```

Output:



Program 3: Action Listener for Login Form

```
1. import javax.swing.*;
2. import java.awt.event.*;
3. public class PasswordFieldExample {
4.     public static void main(String[] args) {
5.         JFrame f=new JFrame("Password Field Example");
6.         final JLabel label = new JLabel();
7.         label.setBounds(20,150, 200,50);
8.         final JPasswordField value = new JPasswordField();
9.         value.setBounds(100,75,100,30);
10.        JLabel l1=new JLabel("Username:");
11.        l1.setBounds(20,20, 80,30);
12.        JLabel l2=new JLabel("Password:");
13.        l2.setBounds(20,75, 80,30);
14.        JButton b = new JButton("Login");
15.        b.setBounds(100,120, 80,30);
16.        final JTextField text = new JTextField();
17.        text.setBounds(100,20, 100,30);
18.        f.add(value); f.add(l1); f.add(label); f.add(l2); f.add(b); f.add(text);
19.        f.setSize(300,300);
20.        f.setLayout(null);
```

```

21.         f.setVisible(true);
22.         b.addActionListener(new ActionListener() {
23.             public void actionPerformed(ActionEvent e) {
24.                 String data = "Username " + text.getText();
25.                 data += ", Password: "
26.                 + new String(value.getPassword());
27.                 label.setText(data);
28.             }
29.         });
30.     }
31. }

```

Output:

:



Program 4 : CheckBox with ItemListner

```

1. import javax.swing.*;
2. import java.awt.event.*;
3. public class CheckBoxExample
4. {

```

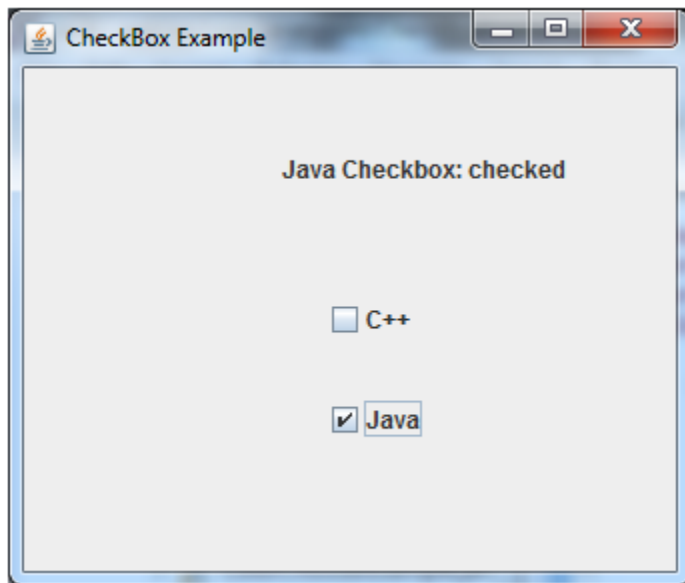
```
5.   CheckBoxExample(){
6.       JFrame f= new JFrame("CheckBox Example");
7.       final JLabel label = new JLabel();
8.       label.setHorizontalAlignment(JLabel.CENTER);
9.       label.setSize(400,100);
10.
11.      JCheckBox checkbox1 = new JCheckBox("C++");
12.      checkbox1.setBounds(150,100, 50,50);
13.      JCheckBox checkbox2 = new JCheckBox("Java");
14.      checkbox2.setBounds(150,150, 50,50);
15.
16.      f.add(checkbox1); f.add(checkbox2); f.add(label);
17.
```

```
18.      checkbox1.addItemListener(new ItemListener() {
19.          public void itemStateChanged(ItemEvent e) {
20.              label.setText("C++ Checkbox: "
21.                  + (e.getStateChange() == 1?"checked":"unchecked"));
22.          }
23.      });
```

```
24.
25.      checkbox2.addItemListener(new ItemListener() {
26.          public void itemStateChanged(ItemEvent e) {
27.              label.setText("Java Checkbox: "
28.                  + (e.getStateChange() == 1?"checked":"unchecked"));
29.          }
30.      });
```

```
31.
32.      f.setSize(400,400);
33.      f.setLayout(null);
34.      f.setVisible(true);
35.  }
36.  public static void main(String args[])
37.  {
38.      new CheckBoxExample();
39.  }
40. }
```

Output:



Program 5: Food Ordering JFrame

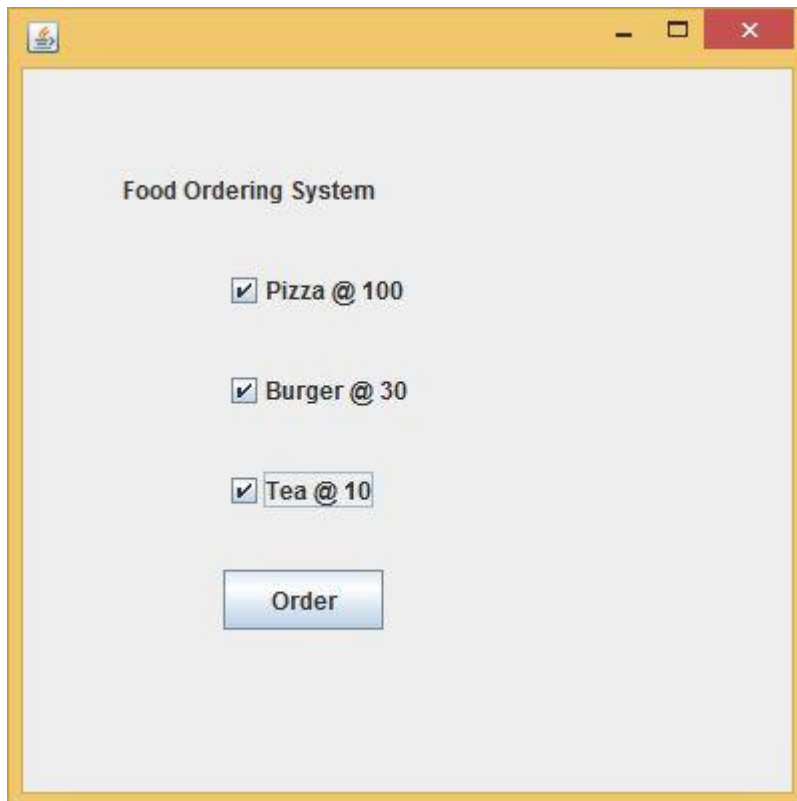
```
1. import javax.swing.*;
2. import java.awt.event.*;
3. public class CheckBoxExample extends JFrame implements ActionListener{
4.     JLabel l;
5.     JCheckBox cb1,cb2,cb3;
6.     JButton b;
7.     CheckBoxExample(){
8.         l=new JLabel("Food Ordering System");
9.         l.setBounds(50,50,300,20);
10.        cb1=new JCheckBox("Pizza @ 100");
11.        cb1.setBounds(100,100,150,20);
12.        cb2=new JCheckBox("Burger @ 30");
13.        cb2.setBounds(100,150,150,20);
14.        cb3=new JCheckBox("Tea @ 10");
15.        cb3.setBounds(100,200,150,20);
16.        b=new JButton("Order");
```

```

17.     b.setBounds(100,250,80,30);
18.     b.addActionListener(this);
19.     add(l);add(cb1);add(cb2);add(cb3);add(b);
20.     setSize(400,400);
21.     setLayout(null);
22.     setVisible(true);
23.     setDefaultCloseOperation(EXIT_ON_CLOSE);
24. }
25. public void actionPerformed(ActionEvent e){
26.     float amount=0;
27.     String msg="";
28.     if ( cb1.isSelected() ) {
29.         amount+=100;
30.         msg="Pizza: 100\n";
31.     }
32.     if ( cb2.isSelected() ) {
33.         amount+=30;
34.         msg+="Burger: 30\n";
35.     }
36.     if ( cb3.isSelected() ) {
37.         amount+=10;
38.         msg+="Tea: 10\n";
39.     }
40.     msg+="-----\n";
41.
42.     JOptionPane.showMessageDialog( this, msg+"Total: "+amount );
43. }
44. public static void main(String[] args) {
45.     new CheckBoxExample();
46. }
47. }

```

Output:



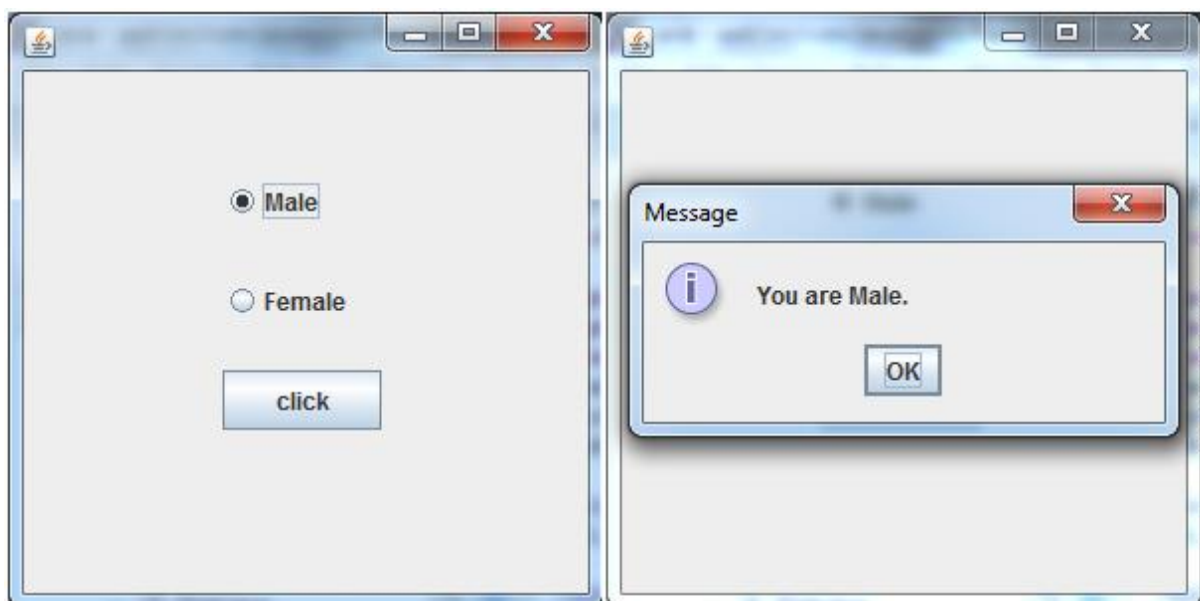
Java JRadioButton Example with ActionListener

1. **import** javax.swing.*;
2. **import** java.awt.event.*;
3. **class** RadioButtonExample **extends** JFrame **implements** ActionListener{
4. JRadioButton rb1,rb2;
5. JButton b;
6. RadioButtonExample(){
7. rb1=**new** JRadioButton("Male");
8. rb1.setBounds(100,50,100,30);

```

9.  rb2=new JRadioButton("Female");
10. rb2.setBounds(100,100,100,30);
11. ButtonGroup bg=new ButtonGroup();
12. bg.add(rb1);bg.add(rb2);
13. b=new JButton("click");
14. b.setBounds(100,150,80,30);
15. b.addActionListener(this);
16. add(rb1);add(rb2);add(b);
17. setSize(300,300);
18. setLayout(null);
19. setVisible(true);
20. }
21. public void actionPerformed(ActionEvent e){
22. if(rb1.isSelected()){
23. JOptionPane.showMessageDialog(this,"You are Male.");
24. }
25. if(rb2.isSelected()){
26. JOptionPane.showMessageDialog(this,"You are Female.");
27. }
28. }
29. public static void main(String args[]){
30. new RadioButtonExample();
31. }

```



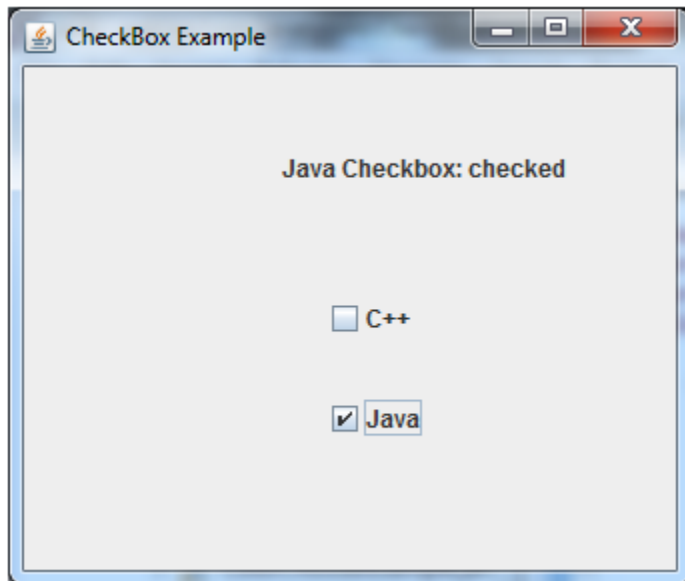
Java JCheckBox Example with ItemListener

```
1. import javax.swing.*;
2. import java.awt.event.*;
3. public class CheckBoxExample
4. {
5.     CheckBoxExample(){
6.         JFrame f= new JFrame("CheckBox Example");
7.         final JLabel label = new JLabel();
8.         label.setHorizontalAlignment(JLabel.CENTER);
9.         label.setSize(400,100);
10.
11.         JCheckBox checkbox1 = new JCheckBox("C++");
12.         checkbox1.setBounds(150,100, 50,50);
13.
14.         JCheckBox checkbox2 = new JCheckBox("Java");
15.         checkbox2.setBounds(150,150, 50,50);
16.
17.         f.add(checkbox1); f.add(checkbox2); f.add(label);
18.
19.         checkbox1.addItemListener(new ItemListener() {
20.             public void itemStateChanged(ItemEvent e) {
21.                 label.setText("C++ Checkbox: "
22.                     + (e.getStateChange() == 1?"checked":"unchecked"));
23.             }
24.         });
25.
26.         checkbox2.addItemListener(new ItemListener() {
27.             public void itemStateChanged(ItemEvent e) {
28.                 label.setText("Java Checkbox: "
29.                     + (e.getStateChange() == 1?"checked":"unchecked"));
30.             }
31.         });
32.         f.setSize(400,400);
33.         f.setLayout(null);
```

```

33.     f.setVisible(true);
34. }
35. public static void main(String args[])
36. {
37.     new CheckBoxExample();
38. }
39. }

```



Java JCheckBox Example: Food Order

```

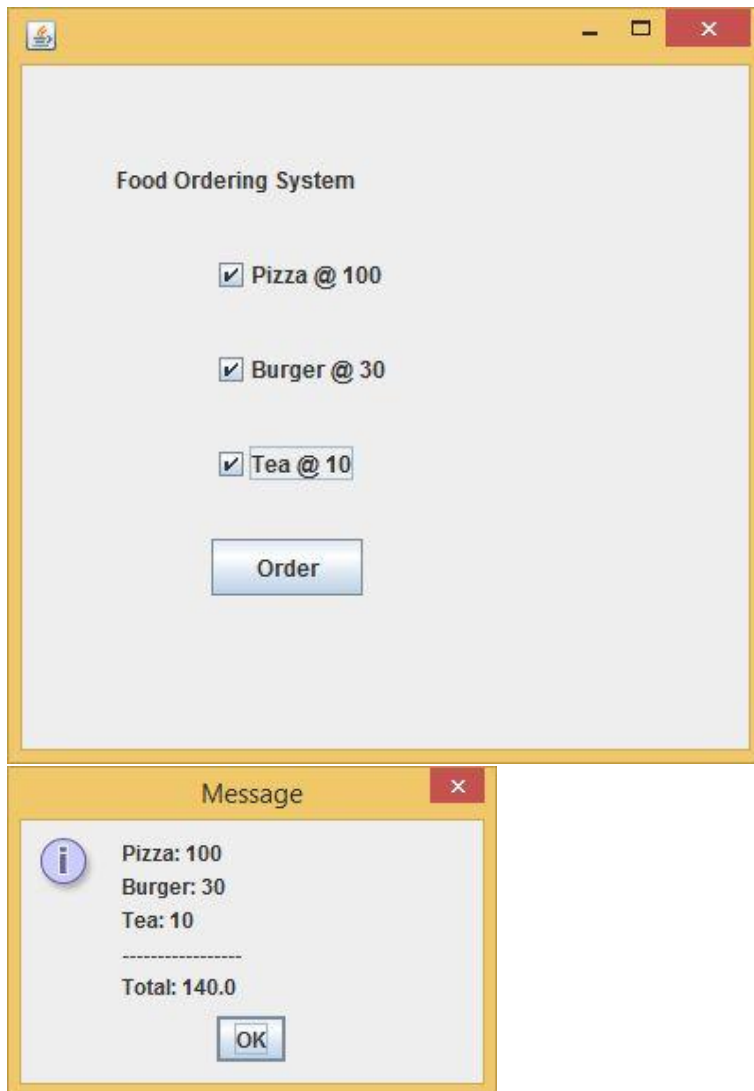
1. import javax.swing.*;
2. import java.awt.event.*;
3. public class CheckBoxExample extends JFrame implements ActionListener{
4.     JLabel l;
5.     JCheckBox cb1,cb2,cb3;
6.     JButton b;
7.     CheckBoxExample(){
8.         l=new JLabel("Food Ordering System");
9.         l.setBounds(50,50,300,20);
10.        cb1=new JCheckBox("Pizza @ 100");
11.        cb1.setBounds(100,100,150,20);
12.        cb2=new JCheckBox("Burger @ 30");
13.        cb2.setBounds(100,150,150,20);

```

```
14.    cb3=new JCheckBox("Tea @ 10");
15.    cb3.setBounds(100,200,150,20);
16.    b=new JButton("Order");
17.    b.setBounds(100,250,80,30);
18.    b.addActionListener(this);
19.    add(l);add(cb1);add(cb2);add(cb3);add(b);
20.    setSize(400,400);
21.    setLayout(null);
22.    setVisible(true);
23.    setDefaultCloseOperation(EXIT_ON_CLOSE);
24. } // end of constructor
25.
```

```
26. public void actionPerformed (ActionEvent e){
27.     float amount=0;
28.     String msg="";
29.     if(cb1.isSelected()){
30.         amount+=100;
31.         msg="Pizza: 100\n";
32.     }
33.     if(cb2.isSelected()){
34.         amount+=30;
35.         msg+="Burger: 30\n";
36.     }
37.     if(cb3.isSelected()){
38.         amount+=10;
39.         msg+="Tea: 10\n";
40.     }
41.     msg+="-----\n";
42.     JOptionPane.showMessageDialog(this,msg+"Total: "+amount);
43. }
```

```
44. public static void main(String[] args) {
45.     new CheckBoxExample();
46. }
47. }
```



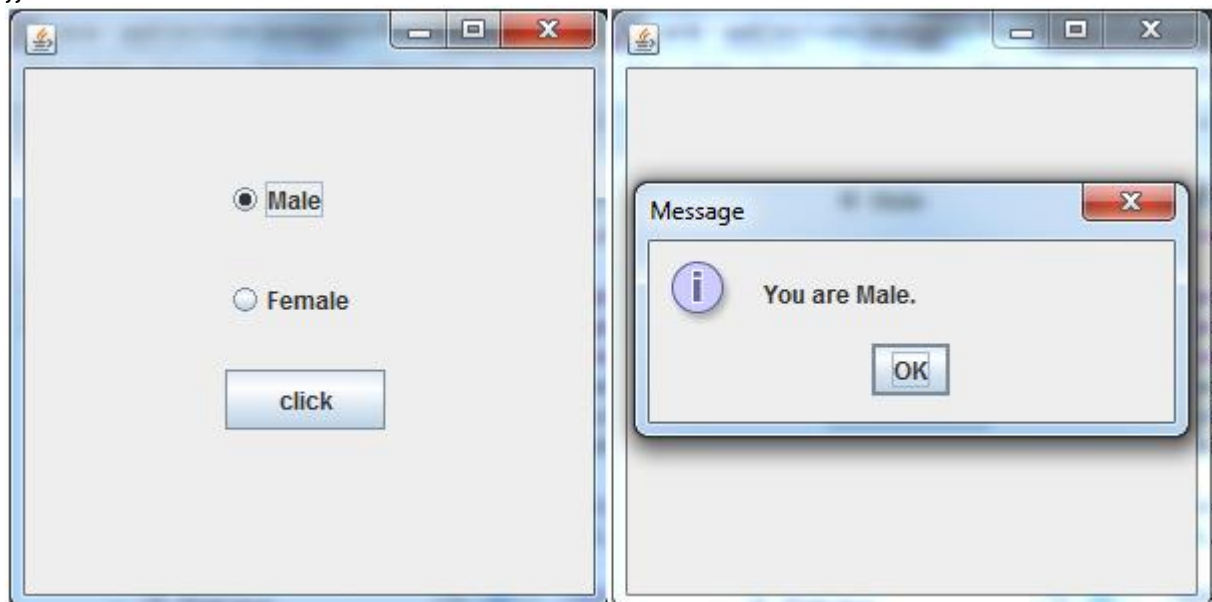
Java JRadioButton Example with ActionListener

1. **import** javax.swing.*;
2. **import** java.awt.event.*;
3. **class** RadioButtonExample **extends** JFrame **implements** ActionListener{
4. JRadioButton rb1,rb2;
5. JButton b;
6. RadioButtonExample(){
7. rb1=**new** JRadioButton("Male");
8. rb1.setBounds(100,50,100,30);
9. rb2=**new** JRadioButton("Female");
10. rb2.setBounds(100,100,100,30);

```

11. ButtonGroup bg=new ButtonGroup();
12. bg.add(rb1);bg.add(rb2);
13. b=new JButton("click");
14. b.setBounds(100,150,80,30);
15. b.addActionListener(this);
16. add(rb1);add(rb2);add(b);
17. setSize(300,300);
18. setLayout(null);
19. setVisible(true);
20. }
21. public void actionPerformed(ActionEvent e){
22. if(rb1.isSelected()){
23. JOptionPane.showMessageDialog(this,"You are Male.");
24. }
25. if(rb2.isSelected()){
26. JOptionPane.showMessageDialog(this,"You are Female.");
27. }
28. }
29. public static void main(String args[]){
30. new RadioButtonExample();
31. }}

```



Java JList Example with ActionListener

```

1. import javax.swing.*;

```

```

2. import java.awt.event.*;
3. public class ListExample
4. {
5.     ListExample(){
6.         JFrame f= new JFrame();
7.         final JLabel label = new JLabel();
8.         label.setSize(500,100);
9.         JButton b=new JButton("Show");
10.        b.setBounds(200,150,80,30);
11.        final DefaultListModel<String> l1 = new DefaultListModel<>();
12.        l1.addElement("C");
13.        l1.addElement("C++");
14.        l1.addElement("Java");
15.        l1.addElement("PHP");
16.        final JList<String> list1 = new JList<>(l1);
17.        list1.setBounds(100,100, 75,75);
18.        DefaultListModel<String> l2 = new DefaultListModel<>();
19.        l2.addElement("Turbo C++");
20.        l2.addElement("Struts");
21.        l2.addElement("Spring");
22.        l2.addElement("YII");
23.        final JList<String> list2 = new JList<>(l2);
24.        list2.setBounds(100,200, 75,75);
25.        f.add(list1); f.add(list2); f.add(b); f.add(label);
26.        f.setSize(450,450);
27.        f.setLayout(null);
28.        f.setVisible(true);
29.        b.addActionListener(new ActionListener() {
30.            public void actionPerformed(ActionEvent e) {
31.                String data = "";
32.                if (list1.getSelectedIndex() != -1) {
33.                    data = "Programming language Selected: " + list1.getSelectedValue();
34.                    label.setText(data);
35.                }
36.                if(list2.getSelectedIndex() != -1){
37.                    data += ", FrameWork Selected: ";
38.                    for(Object frame :list2.getSelectedValues()){

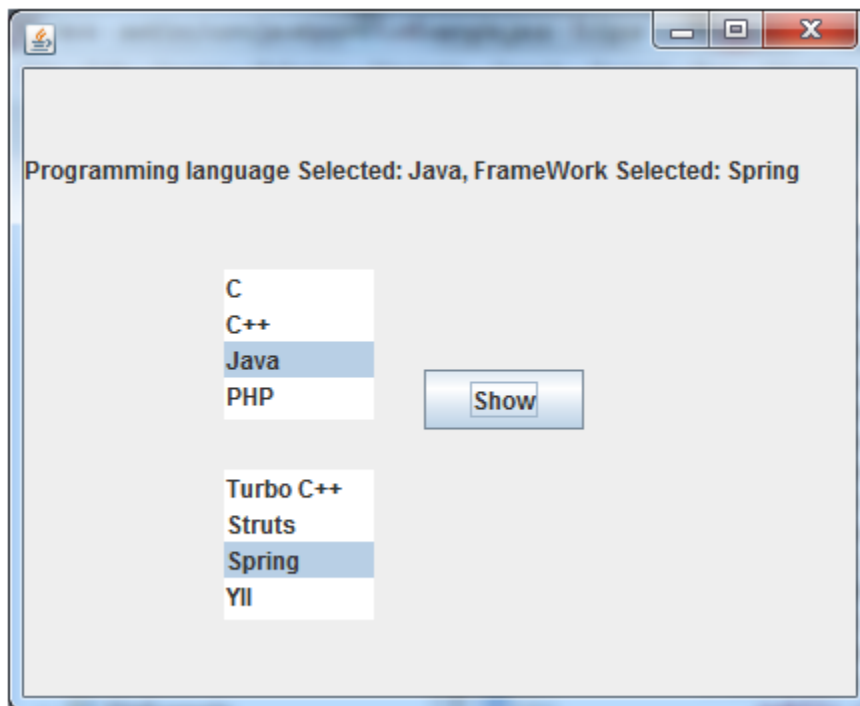
```



```

39.         data += frame + " ";
40.     }
41. }
42.     label.setText(data);
43. }
44. });
45. }
46. public static void main(String args[])
47. {
48.     new ListExample();
49. }

```



Java JComboBox Example with ActionListener

```

1. import javax.swing.*;
2. import java.awt.event.*;
3. public class ComboBoxExample {
4.     JFrame f;
5.     ComboBoxExample(){
6.         f=new JFrame("ComboBox Example");

```

```

7.  final JLabel label = new JLabel();
8.  label.setHorizontalAlignment(JLabel.CENTER);
9.  label.setSize(400,100);
10. JButton b=new JButton("Show");
11. b.setBounds(200,100,75,20);
12. String languages[]={"C","C++","C#","Java","PHP"};
13. final JComboBox cb=new JComboBox(languages);
14. cb.setBounds(50, 100,90,20);
15. f.add(cb); f.add(label); f.add(b);
16. f.setLayout(null);
17. f.setSize(350,350);
18. f.setVisible(true);
19. b.addActionListener(new ActionListener() {
20.     public void actionPerformed(ActionEvent e) {
21. String data = "Programming language Selected: "
22. + cb.getItemAt(cb.getSelectedIndex());
23. label.setText(data);
24. }
25. });
26. }
27. public static void main(String[] args) {
28.     new ComboBoxExample();
29. }
30. }

```

