Using choice control

1. In GUI app development , we commonly require to allow the user to make a selection amongst multiple options.

2. For ex: We want to let the user choose his/her gender.

3 In such cases Java provides Choice Controls in swing technology.

4. A choice control is a control which allows the user to choose an option amongst available list of choices.

5. Java provides 4 popular choice controls:
    a. JCheckBox
    b. JRadioButton
    c. JComboBox
    d. JList
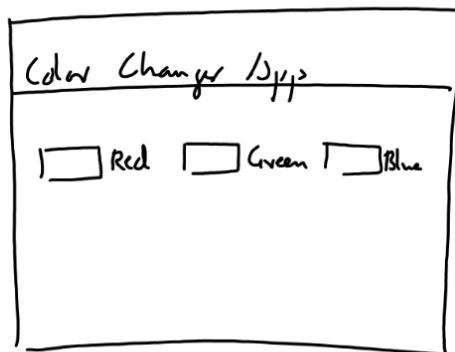
Event fired in checkbox
==================
1. Whenever the user selects or deselects a checkbox Java execute **ItemEvent** and calls **itemStateChanged()** method.

2. However to perform any corresponding actions we may want to obtain state of the checkbox i.e. whether checkbox is selected or not.

3. This is done by calling instance method of **JCheckBox** class called **isSelected()** having the following prototype :

public boolean isSelected();

```java
class CheckBoxDemoFrame extends javax.swing.JFrame {

    private Color oldColor;
    public CheckBoxDemoFrame() {
        initComponents();
        setLocationRelativeTo(null);
        oldColor=myPanel.getBackground();
    }
private void chkChangeColorItemStateChanged(java.awt.event.ItemEvent evt) {
    if(chkChangeColor.isSelected()){
        myPanel.setBackground(Color.red);
    }else{
        myPanel.setBackground(oldColor);
    }
    }
```


Color Changer Jpp

☐ Red   ☐ Green   ☐ Blue

Using JRadioButton
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1. Radio buttons are similars to checkboxes with 2 diffrences:

a) Checkboxes are squre shape while radio button are rounded

b) At a time morethan one checkbox can remain on but radio buttons are mututally
exclusive i.e. at a time only one radio button can remain on.

Special note
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In Java we don't get this feature by default but we have to achieve it using
ButtonGroup.

Event fired in RadioButton
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To create radio buttons Java's provides us a class called **JRadioButton** and like a
normal button they fire **actionPerformed()** whenever the user selects them.

```
private void jrbMaleActionPerformed(java.awt.event.ActionEvent evt) {
    lblResult.setText("You selected Male");
}

private void jrbFemaleActionPerformed(java.awt.event.ActionEvent evt) {
    lblResult.setText("You selected Female");
}
```

Unit Converter Frame

Enter Km [5]

After changing [ ]

Select Unit

○ Mch   ⊙ Cm   ○ Mm

[| Conv]   [| Clear]   [Quit]