

XML

```
<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context=".MainActivity">

    <CheckBox
        android:id="@+id/chekapple"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Apple"
        tools:layout_editor_absoluteX="16dp"
        tools:layout_editor_absoluteY="157dp" />

    <CheckBox
        android:id="@+id/chkorange"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Orange" />

    <CheckBox
        android:id="@+id/chkgrapes"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Grapes" />

    <TextView
        android:id="@+id/tvres"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="" />
```

```
<RadioGroup
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal">
    <RadioButton
        android:id="@+id/rdmale"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Male" />
    <RadioButton
        android:id="@+id/rdfemale"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Female" />
</RadioGroup>
<ToggleButton
    android:id="@+id/tgonoff"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:textOn="ON"
    android:textOff="OFF"/>
<Switch
    android:id="@+id/swone"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:textOn="ON"
    android:textOff="OFF"
    android:text="Are You Indian" />
<Spinner
    android:id="@+id/country"
    android:layout_width="wrap_content"
```

```
        android:layout_height="wrap_content"
        android:entries="@array/list"
    />
    <Button
        android:id="@+id/click"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:src="@drawable/n2"
        android:text="Display" />
    <ImageView
        android:id="@+id/img"
        android:layout_width="match_parent"
        android:layout_height="100dp"
        android:src="@drawable/nature"
        android:contentDescription="nature" />
</LinearLayout>
```

ActivityMain.Xml(Java)

```
package com.example.box;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.CheckBox;
import android.widget.ImageView;
import android.widget.RadioButton;
import android.widget.Spinner;
import android.widget.Switch;
import android.widget.TextView;
import android.widget.Toast;
import android.widget.ToggleButton;
```

```

public class MainActivity extends AppCompatActivity {

    CheckBox apple,orange,grapes;

    String chkstr="",chkstr1="",chkstr2="";

    RadioButton male,female;

    ToggleButton tg;

    Switch sw;

    Spinner sp;

    Button btclick;

    ImageView img;

    TextView res;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        apple=(CheckBox) findViewById(R.id.chekapple);

        orange=(CheckBox) findViewById(R.id.chkorange);

        grapes=(CheckBox)findViewById(R.id.chkgrapes);

        res=(TextView) findViewById(R.id.tvres);

        male=(RadioButton)findViewById(R.id.rdmale) ;

        female=(RadioButton)findViewById(R.id.rdfemale);

        tg=(ToggleButton)findViewById(R.id.tgonoff);

        sw=(Switch)findViewById(R.id.swone);

        sp=(Spinner)findViewById(R.id.country);

        btclick=(Button)findViewById(R.id.click) ;

        img=(ImageView)findViewById(R.id.img) ;

        apple.setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View v) {

                if(apple.isChecked())

                    chkstr=apple.getText().toString();

                else

```

```
chkstr="";
res.setText(chkstr+chkstr1+chkstr2);
}
});
orange.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View v) {
if(orange.isChecked())
chkstr1=orange.getText().toString();
else
chkstr1="";
res.setText(chkstr+chkstr1+chkstr2);
}
});
grapes.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View v) {
if(grapes.isChecked())
chkstr2=grapes.getText().toString();
else
chkstr2="";
res.setText(chkstr+chkstr1+chkstr2);
}
});
male.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View v) {
Toast t=
Toast.makeText(getApplicationContext(),"male",Toast.LENGTH_SHORT);
t.show();
}
```

```
});  
female.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View v) {  
        Toast  
        t=Toast.makeText(getApplicationContext(),"female",Toast.LENGTH_SHORT);  
        t.show();  
    }  
});  
tg.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View v) {  
        if (tg.isChecked()) {  
            Toast t = Toast.makeText(getApplicationContext(),  
            tg.getTextOn(), Toast.LENGTH_SHORT);  
            t.show();  
        } else  
            Toast.makeText(getApplicationContext(), tg.getTextOff(),  
            Toast.LENGTH_SHORT).show();  
        }  
});  
sw.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View v) {  
        if(sw.isChecked()) {  
            Toast  
            t=Toast.makeText(getApplicationContext(),sw.getTextOn(),Toast.LENGTH_SHORT);  
            t.show();  
        }  
        else  
            Toast.makeText(getApplicationContext(),sw.getTextOff(),Toast.LENGTH_SHORT).show
```

```
();  
}  
});  
btclick.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View v) {  
        Toast.makeText(getApplicationContext(),sp.getSelectedItem().toString(),Toast.LE  
        NGTH_SHORT).show();  
        img.setImageResource(R.drawable.n2);  
    }  
});  
}  
}  
  
<resources>  
    <string name="app_name">Box</string>  
    <string-array name="list">  
        <item>INDIA</item>  
        <item>USA</item>  
        <item>UK</item>  
    </string-array>  
</resources>
```

