



Code of XML

```
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
```

```
    xmlns:tools="http://schemas.android.com/tools"
```

```
    android:layout_width="match_parent"
```

```
    android:layout_height="match_parent"
```

```
    android:paddingBottom="@dimen/activity_vertical_margin"
```

```
    android:paddingLeft="@dimen/activity_horizontal_margin"
```

```
    android:paddingRight="@dimen/activity_horizontal_margin"
```

```
    android:paddingTop="@dimen/activity_vertical_margin"
```

```
    tools:context=".MainActivity" >
```

```
<Button
```

```
    android:id="@+id/button3"
```

```
style="?android:attr/buttonStyleSmall"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignBaseline="@+id/button2"
android:layout_alignBottom="@+id/button2"
android:layout_toRightOf="@+id/button2"
android:text="@string/_3"/>
```

<Button

```
android:id="@+id/button1"
style="?android:attr/buttonStyleSmall"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignParentLeft="true"
android:layout_alignParentTop="true"
android:layout_marginLeft="16dp"
android:layout_marginTop="122dp"
android:text="@string/_1" />
```

<Button

```
android:id="@+id/button2"
style="?android:attr/buttonStyleSmall"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignBaseline="@+id/button1"
```

```
android:layout_alignBottom="@+id/button1"  
android:layout_toRightOf="@+id/button1"  
android:text="@string/_2" />
```

<Button

```
android:id="@+id/button5"  
style="?android:attr/buttonStyleSmall"  
android:layout_width="wrap_content"  
android:layout_height="wrap_content"  
android:layout_below="@+id/button1"  
android:layout_toRightOf="@+id/button1"  
android:text="@string/_5" />
```

<Button

```
android:id="@+id/button7"  
style="?android:attr/buttonStyleSmall"  
android:layout_width="wrap_content"  
android:layout_height="wrap_content"  
android:layout_alignLeft="@+id/button1"  
android:layout_below="@+id/button5"  
android:text="@string/_7" />
```

<Button

```
android:id="@+id/button4"  
style="?android:attr/buttonStyleSmall"
```

```
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_above="@+id/button7"
android:layout_alignLeft="@+id/button7"
android:text="@string/_4" />
```

<Button

```
android:id="@+id/button6"
style="?android:attr/buttonStyleSmall"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_above="@+id/button7"
android:layout_alignLeft="@+id/button3"
android:text="@string/_6" />
```

<Button

```
android:id="@+id/button8"
style="?android:attr/buttonStyleSmall"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignLeft="@+id/button5"
android:layout_alignTop="@+id/button7"
android:text="@string/_8" />
```

<Button

```
android:id="@+id/button9"  
style="?android:attr/buttonStyleSmall"  
android:layout_width="wrap_content"  
android:layout_height="wrap_content"  
android:layout_alignBaseline="@+id/button8"  
android:layout_alignBottom="@+id/button8"  
android:layout_alignLeft="@+id/button6"  
android:text="@string/_9" />
```

<Button

```
android:id="@+id/button10"  
style="?android:attr/buttonStyleSmall"  
android:layout_width="wrap_content"  
android:layout_height="wrap_content"  
android:layout_below="@+id/button7"  
android:layout_toLeftOf="@+id/button8"  
android:text="@string/_0" />
```

<Button

```
android:id="@+id/button11"  
style="?android:attr/buttonStyleSmall"  
android:layout_width="wrap_content"  
android:layout_height="wrap_content"  
android:layout_alignLeft="@+id/button8"  
android:layout_alignTop="@+id/button10"
```

```
android:text="@string/dot" />
```

```
<Button
```

```
    android:id="@+id/button12"  
    style="?android:attr/buttonStyleSmall"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:layout_alignTop="@+id/button11"  
    android:layout_toRightOf="@+id/button11"  
    android:text="@string/equ" />
```

```
<Button
```

```
    android:id="@+id/button13"  
    style="?android:attr/buttonStyleSmall"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:layout_alignTop="@+id/button3"  
    android:layout_toRightOf="@+id/button3"  
    android:text="@string/add" />
```

```
<Button
```

```
    android:id="@+id/button14"  
    style="?android:attr/buttonStyleSmall"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"
```

```
android:layout_above="@+id/button9"  
android:layout_alignLeft="@+id/button13"  
android:text="@string/sub" />
```

<Button

```
android:id="@+id/button15"  
style="?android:attr/buttonStyleSmall"  
android:layout_width="wrap_content"  
android:layout_height="wrap_content"  
android:layout_alignLeft="@+id/button14"  
android:layout_alignTop="@+id/button9"  
android:text="@string/mult" />
```

<Button

```
android:id="@+id/button16"  
style="?android:attr/buttonStyleSmall"  
android:layout_width="wrap_content"  
android:layout_height="wrap_content"  
android:layout_alignBaseline="@+id/button12"  
android:layout_alignBottom="@+id/button12"  
android:layout_toRightOf="@+id/button12"  
android:text="@string/div" />
```

<EditText

```
android:id="@+id/editText1"
```

```
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_above="@+id/button3"
    android:layout_centerHorizontal="true"
    android:layout_marginBottom="37dp"
    android:ems="10" android:inputType="text"/>
```

```
<Button
```

```
    android:id="@+id/button17"
    style="?android:attr/buttonStyleSmall"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@+id/button10"
    android:layout_toLeftOf="@+id/button11"
    android:text="@string/c" />
```

```
</RelativeLayout>
```

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

```
<resources>
```

```
CODE OF STRING VALUE
```

```
<string name="app_name">Calculators</string>
<string name="action_settings">Settings</string>
<string name="hello_world">Hello world!</string>
<string name="_3">3</string>
<string name="add">+</string>
<string name="c">C</string>
<string name="_5">5</string>
```



```
<string name="_4">4</string>
<string name="_0">0</string>
<string name="_1">1</string>
<string name="_2">2</string>
<string name="sub">-</string>
<string name="div">/</string>
<string name="mult">*</string>
<string name="_6">6</string>
<string name="_7">7</string>
<string name="_8">8</string>
<string name="_9">9</string>
<string name="equ">=</string>
<string name="dot">.</string>
</resources>
```

CODE OF JAVA

```
package com.example.calculators;
```

```
import android.os.Bundle;
import android.app.Activity;
import android.view.Menu;
import android.view.MenuItem;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
```

```
public class MainActivity extends Activity {  
  
    Button b1,b2,b3,b4,b5,b6,b7,b8,b9,b0,bdot,badd,bsub,bmul,bdiv,beq,bc;  
  
    EditText et;  
  
    int val1,val2;  
  
    boolean add,sub,div,mul;  
  
    //char press;  
  
    @Override  
  
    protected void onCreate(Bundle savedInstanceState) {  
  
        super.onCreate(savedInstanceState);  
  
        setContentView(R.layout.activity_main);  
  
        b1=(Button) findViewById(R.id.button1);  
  
        b2=(Button) findViewById(R.id.button2);  
  
        b3=(Button) findViewById(R.id.button3);  
  
        b4=(Button) findViewById(R.id.button4);  
  
        b5=(Button) findViewById(R.id.button5);  
  
        b6=(Button) findViewById(R.id.button6);  
  
        b7=(Button) findViewById(R.id.button7);  
  
        b8=(Button) findViewById(R.id.button8);  
  
        b9=(Button) findViewById(R.id.button9);  
  
        b0=(Button) findViewById(R.id.button10);  
  
        bdot=(Button) findViewById(R.id.button11);  
  
        badd=(Button) findViewById(R.id.button13);  
  
        bsub=(Button) findViewById(R.id.button14);  
  
        bmul=(Button) findViewById(R.id.button15);  
  
    }  
}
```

```
bdiv=(Button) findViewById(R.id.button16);
```

```
beq=(Button) findViewById(R.id.button12);
```

```
bc=(Button) findViewById(R.id.button17);
```

```
et=(EditText) findViewById(R.id.editText1);
```

```
b1.setOnClickListener(new View.OnClickListener() {
```

```
    @Override
```

```
    public void onClick(View v) {
```

```
        // TODO Auto-generated method stub
```

```
        et.setText(et.getText()+"1");
```

```
    }
```

```
});
```

```
b2.setOnClickListener(new View.OnClickListener() {
```

```
    @Override
```

```
    public void onClick(View v) {
```

```
        // TODO Auto-generated method stub
```

```
        et.setText(et.getText()+"2");
```

```
    }
```

```
});
```

```
b3.setOnClickListener(new View.OnClickListener() {
```

```
    @Override
```

```
    public void onClick(View v) {
```

```
        // TODO Auto-generated method stub
```

```
        et.setText(et.getText()+"3");
```

```
}  
});  
b4.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View v) {  
        // TODO Auto-generated method stub  
        et.setText(et.getText()+"4");  
    }  
});  
b5.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View v) {  
        // TODO Auto-generated method stub  
        et.setText(et.getText()+"5");  
    }  
});  
b6.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View v) {  
        // TODO Auto-generated method stub  
        et.setText(et.getText()+"6");  
    }  
});  
b7.setOnClickListener(new View.OnClickListener() {  
    @Override
```

```
public void onClick(View v) {  
    // TODO Auto-generated method stub  
    et.setText(et.getText()+"7");  
}  
});  
b8.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View v) {  
        // TODO Auto-generated method stub  
        et.setText(et.getText()+"8");  
    }  
});  
b9.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View v) {  
        // TODO Auto-generated method stub  
        et.setText(et.getText()+"9");  
    }  
});  
b0.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View v) {  
        // TODO Auto-generated method stub  
        et.setText(et.getText()+"0");  
    }  
});
```

```
});  
  
bdot.setOnClickListener(new View.OnClickListener() {  
  
    @Override  
  
    public void onClick(View v) {  
  
        // TODO Auto-generated method stub  
  
        et.setText(et.getText()+".");  
  
    }  
  
});
```

```
badd.setOnClickListener(new View.OnClickListener() {  
  
    @Override  
  
    public void onClick(View v) {  
  
        val1=Integer.parseInt(et.getText()+"" );  
  
        add=true;  
  
        et.setText(null);  
  
    }  
  
});
```

```
bsub.setOnClickListener(new View.OnClickListener() {  
  
    @Override  
  
    public void onClick(View v) {  
  
        val1=Integer.parseInt(et.getText()+"" );  
  
        sub=true;  
  
        et.setText(null);  
  
    }  
  
});
```

```
bdiv.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View v) {  
        val1=Integer.parseInt(et.getText()+"");  
        div=true;  
        et.setText(null);  
    }  
});  
  
bmul.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View v) {  
        val1=Integer.parseInt(et.getText()+"");  
        mul=true;  
        et.setText(null);  
    }  
});  
  
    beq.setOnClickListener(new View.OnClickListener() {  
        @Override  
        public void onClick(View v) {  
            val2=Integer.parseInt(et.getText()+"");  
            if (add==true) {  
                et.setText(val1+val2+"");  
                add=false;  
            }  
            if (sub==true) {
```

```

        et.setText(val1-val2+ "");
        sub=false;
    }
    if (mul==true) {
        et.setText(val1*val2+ "");
        mul=false;
    }
    if (div==true) {
        et.setText(val1/val2+ "");
        div=false;
    }
}

});

bc.setOnClickListener(new View.OnClickListener() {

    @Override

    public void onClick(View v) {

        et.setText(null);

    }

});

}

@Override

public boolean onCreateOptionsMenu(Menu menu) {

    // Inflate the menu; this adds items to the action bar if it is present.

    getMenuInflater().inflate(R.menu.main, menu);

```



```
    return true;
}

@Override

public boolean onOptionsItemSelected(MenuItem item) {
    // Handle action bar item clicks here. The action bar will
    // automatically handle clicks on the Home/Up button, so long
    // as you specify a parent activity in AndroidManifest.xml.
    int id = item.getItemId();
    if (id == R.id.action_settings) {
        return true;
    }
    return super.onOptionsItemSelected(item);
}
}
```