



Code in WXML

```

<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>
```

Code in 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);
b1=(Button) findViewById(R.id.button11);
b2=(Button) findViewById(R.id.button13);
b3=(Button) findViewById(R.id.button14);
b4=(Button) findViewById(R.id.button15);
b5=(Button) findViewById(R.id.button16);
b6=(Button) findViewById(R.id.button12);
b7=(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);

}

}
```