## XML CODE:

```
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
  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/button9"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignBaseline="@+id/button8"
    android:layout_alignBottom="@+id/button8"
    android:layout_alignRight="@+id/button6"
    android:text="1"/>
 <Button
    android:id="@+id/button3"
    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="7"/>
<Button
    android:id="@+id/button6"
```

```
android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_above="@+id/button7"
    android:layout_toRightOf="@+id/button5"
    android:text="4"/>
<Button
    android:id="@+id/button5"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@+id/button2"
    android:layout_toLeftOf="@+id/button3"
    android:text="5"/>
<Button
    android:id="@+id/button4"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_below="@+id/editText1"
    android:layout_marginTop="102dp"
    android:layout_toLeftOf="@+id/button5"
    android:text="6"/>
<Button
    android:id="@+id/button8"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignBaseline="@+id/button7"
    android:layout_alignBottom="@+id/button7"
    android:layout_toLeftOf="@+id/button9"
    android:text="2"/>
<Button
```

```
android:id="@+id/button2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_above="@+id/button6"
    android:layout_toRightOf="@+id/button1"
    android:text="8"/>
<Button
    android:id="@+id/button1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_above="@+id/button5"
    android:layout_alignLeft="@+id/button7"
    android:text="9"/>
<Button
    android:id="@+id/button7"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:layout_alignLeft="@+id/textView1"
    android:layout_below="@+id/button4"
    android:text="3"/>
<EditText
    android:id="@+id/editText1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignLeft="@+id/button1"
    android:layout_below="@+id/textView1"
    android:layout_marginTop="29dp"
    android:ems="10"/>
<Button
```

```
android:id="@+id/button11"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@+id/button9"
    android:layout_toRightOf="@+id/button10"
    android:text="."/>
<Button
    android:id="@+id/button10"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@+id/button8"
    android:layout_toLeftOf="@+id/button8"
    android:text="0"/>
<Button
    android:id="@+id/button13"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:layout_below="@+id/button6"
    android:layout_toRightOf="@+id/button9"
    android:text="+"/>
<Button
    android:id="@+id/button14"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@+id/button3"
    android:layout_toRightOf="@+id/button3"
    android:text="-"/>
<Button
    android:id="@+id/button15"
```

```
android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignBottom="@+id/button12"
    android:layout_toRightOf="@+id/button12"
    android:text="*"/>
<Button
    android:id="@+id/button12"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    and roid: layout\_alignBaseline="@+id/button11"
    android:layout_alignBottom="@+id/button11"
    android:layout_alignLeft="@+id/button9"
    android:text="="/>
<Button
    android:id="@+id/button16"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignBottom="@+id/button3"
    android:layout_alignLeft="@+id/button14"
    android:text="/" />
<Button
    android:id="@+id/button17"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignLeft="@+id/button10"
    android:layout_below="@+id/button11"
    android:text="cle"/>
```

</RelativeLayout>

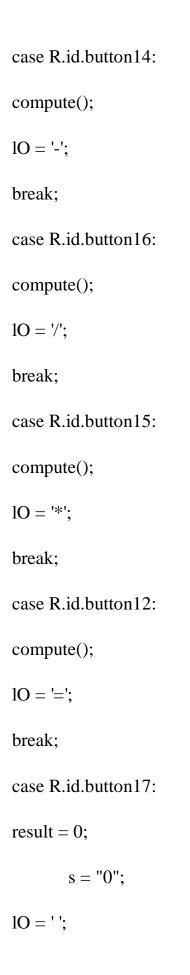
## **JAVA CODE:**

```
package com.example.cal;
import android.app.Activity;
import android.os.Bundle;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.Button;
import android.widget.EditText;
public class MainActivity extends Activity implements OnClickListener {
Button nine, eig, sev, six, fiv, four, thr, two, one, zero, dot, plus, mins, div, mul, eq, cl;
EditText et;
  String s = "0";
int result = 0;
char 10 = ' ';
  @Override
protected void onCreate(Bundle savedInstanceState)
{
     super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
nine=(Button)findViewById(R.id.button1);
eig=(Button)findViewById(R.id.button2);
```

```
sev=(Button)findViewById(R.id.button3);
six=(Button)findViewById(R.id.button4);
fiv=(Button)findViewById(R.id.button5);
four=(Button)findViewById(R.id.button6);
thr=(Button)findViewById(R.id.button7);
two=(Button)findViewById(R.id.button8);
one=(Button)findViewById(R.id.button9);
zero=(Button)findViewById(R.id.button10);
dot=(Button)findViewById(R.id.button11);
plus=(Button)findViewById(R.id.button13);
mins=(Button)findViewById(R.id.button14);
div=(Button)findViewById(R.id.button16);
mul=(Button)findViewById(R.id.button15);
eq=(Button)findViewById(R.id.button12);
cl=(Button)findViewById(R.id.button17);
et=(EditText)findViewById(R.id.editText1);
nine.setOnClickListener(this);
eig.setOnClickListener(this);
sev.setOnClickListener(this);
six.setOnClickListener(this);
```

```
fiv.setOnClickListener(this);
four.setOnClickListener(this);
thr.setOnClickListener(this);
two.setOnClickListener(this);
one.setOnClickListener(this);
dot.setOnClickListener(this);
plus.setOnClickListener(this);
mins.setOnClickListener(this);
div.setOnClickListener(this);
mul.setOnClickListener(this);
eq.setOnClickListener(this);
cl.setOnClickListener(this);
et.setOnClickListener(this);
  @Override
public void onClick(View v)
{switch(v.getId())
{ case R.id.button1:
case R.id.button2:
case R.id.button3:
case R.id.button4:
```

```
case R.id.button5:
case R.id.button6:
case R.id.button7:
case R.id.button8:
case R.id.button9:
case R.id.button10:
       String inDigit = ((Button) v).getText().toString();
if (s.equals("0"))
     { s=inDigit; }
else
     { s+=inDigit; }
et.setText(s);
if(lO == '=')
       { result=0;
         1O =' '; }
break;
case R.id.button13:
compute();
10 = '+';
break;
```



```
et.setText("0");
break;
     } }
private void compute()
{ int inNum = Integer.parseInt(s);
     s = "0";
if (lO == ' ')
     { result = inNum; }
else if (1O == '+')
     { result += inNum; }
else if (lO == '-')
     { result -= inNum; }
else if (lO == '*')
     { result *= inNum; }
else if (lO == '/')
     { result /= inNum; }
else if (1O == '=')
        } et.setText(String.valueOf(result)); } }
```