XML CODE:

```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" >
<TextView
        android:id="@+id/textView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/hello_world" />
<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"
```

```xml
        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"
```

```xml
        android:layout_height="wrap_content"
        android: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:

```java
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;
```

```java
char lO = ' ';
    @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);
```

```java
        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();
```

```java
if (s.equals("0"))
    {  s= inDigit;  }
else
    {  s+=inDigit;  }
et.setText(s);
if(lO == '=')
        {  result=0;
          lO =' ';  }
break;
case R.id.button13:
compute();
lO = '+';
break;
case R.id.button14:
compute();
lO = '-';
break;
case R.id.button16:
compute();
lO = '/';
break;
case R.id.button15:
compute();
lO = '*';
break;
case R.id.button12:
compute();
```

```java
            lO = '=';
            break;
        case R.id.button17:
            result = 0;
                s = "0";
            lO = ' ';
            et.setText("0");
            break;
            } }
    private void compute()
    {   int inNum = Integer.parseInt(s);
            s = "0";
        if (lO == ' ')
            {   result = inNum;  }
        else if (lO == '+')
            {   result += inNum;  }
        else if (lO == '-')
            {   result -= inNum; }
        else if (lO == '*')
            { result *= inNum;  }
        else if (lO == '/')
            {   result /= inNum;  }
        else if (lO == '=')
            {       }       et.setText(String.valueOf(result));    } }
```