CALCII

*<?*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:layout\_margin="20dp"  
 android:orientation="vertical"  
 tools:context=".MainActivity">  
  
 <TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="50dp"  
 android:gravity="center"  
 android:text="CALCULATOR"  
  
 android:textSize="35dp" />  
  
 <EditText  
 android:id="@+id/res"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:gravity="right"  
 android:textSize="45dp" />  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal">  
  
 <Button  
 android:id="@+id/nine"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="9"  
 android:textSize="40dp"  
 app:backgroundTint="#B388FF" />  
  
 <Button  
 android:id="@+id/eight"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="8"  
 android:textSize="40dp"  
 app:backgroundTint="#B388FF" />  
  
 <Button  
 android:id="@+id/seven"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="7"  
 android:textSize="40dp"  
 app:backgroundTint="#B388FF" />  
  
 <Button  
 android:id="@+id/plus"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="+"  
 android:textSize="40dp"  
 app:backgroundTint="#84FFFF" />  
 </LinearLayout>  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal">  
  
 <Button  
 android:id="@+id/six"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="6"  
 android:textSize="40dp"  
 app:backgroundTint="#B388FF" />  
  
 <Button  
 android:id="@+id/five"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="5"  
 android:textSize="40dp"  
 app:backgroundTint="#B388FF" />  
  
 <Button  
 android:id="@+id/four"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="4"  
 android:textSize="40dp"  
 app:backgroundTint="#B388FF" />  
  
 <Button  
 android:id="@+id/minus"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="-"  
 android:textSize="40dp"  
 app:backgroundTint="#84FFFF" />  
 </LinearLayout>  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal">  
  
 <Button  
 android:id="@+id/one"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="1"  
 android:textSize="40dp"  
 app:backgroundTint="#B388FF" />  
  
 <Button  
 android:id="@+id/two"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="2"  
 android:textSize="40dp"  
 app:backgroundTint="#B388FF" />  
  
 <Button  
 android:id="@+id/three"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="3"  
 android:textSize="40dp"  
 app:backgroundTint="#B388FF" />  
  
 <Button  
 android:id="@+id/star"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="\*"  
 android:textSize="40dp"  
 app:backgroundTint="#84FFFF" />  
 </LinearLayout>  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal">  
  
 <Button  
 android:id="@+id/dot"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="."  
 android:textSize="40dp"  
 app:backgroundTint="#B388FF" />  
  
 <Button  
 android:id="@+id/zero"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="0"  
 android:textSize="40dp"  
 app:backgroundTint="#B388FF" />  
  
 <Button  
 android:id="@+id/equals"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="="  
 android:textSize="40dp"  
 app:backgroundTint="#FF8A80" />  
  
 <Button  
 android:id="@+id/slash"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="/"  
 android:textSize="40dp"  
 app:backgroundTint="#84FFFF" />  
 </LinearLayout>  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal">  
  
 <Button  
 android:id="@+id/clear"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="CLEAR"  
 android:textSize="40dp"  
 app:backgroundTint="#CCFF90" />  
  
 </LinearLayout>  
  
  
</LinearLayout>

package com.example.calci;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
  
 public class MainActivity extends AppCompatActivity implements View.OnClickListener {  
 EditText result;  
 String operator="";  
 Button zero,one,two,three,four,five,six,seven,eight,nine,plus,minus,star,slash,dot,equals,clear;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 result=findViewById(R.id.*res*);  
 zero=findViewById(R.id.*zero*);  
 one=findViewById(R.id.*one*);  
 two=findViewById(R.id.*two*);  
 three=findViewById(R.id.*three*);  
 four=findViewById(R.id.*four*);  
 five=findViewById(R.id.*five*);  
 six=findViewById(R.id.*six*);  
 seven=findViewById(R.id.*seven*);  
 eight=findViewById(R.id.*eight*);  
 nine=findViewById(R.id.*nine*);  
 plus=findViewById(R.id.*plus*);  
 minus=findViewById(R.id.*minus*);  
 star=findViewById(R.id.*star*);  
 slash=findViewById(R.id.*slash*);  
 dot=findViewById(R.id.*dot*);  
 equals=findViewById(R.id.*equals*);  
 clear=findViewById(R.id.*clear*);  
  
 zero.setOnClickListener(this);  
 one.setOnClickListener(this);  
 two.setOnClickListener(this);  
 three.setOnClickListener(this);  
 four.setOnClickListener(this);  
 five.setOnClickListener(this);  
 six.setOnClickListener(this);  
 seven.setOnClickListener(this);  
 eight.setOnClickListener(this);  
 nine.setOnClickListener(this);  
 plus.setOnClickListener(this);  
 minus.setOnClickListener(this);  
 star.setOnClickListener(this);  
 slash.setOnClickListener(this);  
 dot.setOnClickListener(this);  
 equals.setOnClickListener(this);  
 clear.setOnClickListener(this);  
  
  
 }  
  
 @Override  
 public void onClick(View view) {  
 double ans=0.0;  
 switch(view.getId()){  
 case R.id.*zero*: result.append("0");  
 break;  
 case R.id.*one*: result.append("1");  
 break;  
 case R.id.*two*: result.append("2");  
 break;  
 case R.id.*three*: result.append("3");  
 break;  
 case R.id.*four*: result.append("4");  
 break;  
 case R.id.*five*: result.append("5");  
 break;  
 case R.id.*six*: result.append("6");  
 break;  
 case R.id.*seven*: result.append("7");  
 break;  
 case R.id.*eight*: result.append("8");  
 break;  
 case R.id.*nine*: result.append("9");  
 break;  
 case R.id.*plus*: result.append("+");  
 operator="+";  
 break;  
 case R.id.*minus*: result.append("-");  
 operator="-";  
 break;  
 case R.id.*star*: result.append("\*");  
 operator="\*";  
 break;  
 case R.id.*slash*: result.append("/");  
 operator="/";  
 break;  
 case R.id.*dot*: result.append(".");  
 break;  
 case R.id.*equals*: ans=evaluate(result.getText().toString(),operator);  
 result.setText(String.*valueOf*(ans));  
 break;  
 case R.id.*clear*: result.append(" ");  
 break;  
  
 }  
 }  
 private double evaluate(String res, String operatorPressed)  
 {  
 String[] tokens = res.split("\\+|-|\\\*|\\/");  
 double firstOperand = Double.*parseDouble*(tokens[0]);  
 double secondOperand = Double.*parseDouble*(tokens[1]);  
 switch(operatorPressed)  
 {  
 case "+": return firstOperand + secondOperand;  
 case "-": return firstOperand - secondOperand;  
 case "\*": return firstOperand \* secondOperand;  
 case "/": return firstOperand / secondOperand;  
 default: return 0;  
 }  
 }  
 }