

*<?*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:orientation="vertical"

android:layout\_margin="5dp"

android:background="#FF00FB"

tools:context=".MainActivity">

<EditText

android:id="@+id/etresult"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_row="0"

android:layout\_column="0"

android:ems="10"

android:inputType="number"

android:layout\_marginTop="100dp"

android:textSize="20sp"

android:textStyle="bold"

android:textColor="@color/black"

android:enabled="false"

android:text="" />

<GridLayout

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:orientation="horizontal"

android:columnCount="4"

android:rowCount="4">

<Button

android:id="@+id/btplus"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_margin="5dp"

android:textSize="20dp"

android:textStyle="bold"

android:textColor="@color/black"

android:text="+" />

<Button

android:id="@+id/btminus"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_margin="5dp"

android:textSize="20dp"

android:textStyle="bold"

android:textColor="@color/black"

android:text="-" />

<Button

android:id="@+id/btmul"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_margin="5dp"

android:textSize="20dp"

android:textStyle="bold"

android:textColor="@color/black"

android:text="\*" />

<Button

android:id="@+id/btdiv"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_margin="5dp"

android:textSize="20dp"

android:textStyle="bold"

android:textColor="@color/black"

android:text="/" />

<Button

android:id="@+id/btone"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_margin="5dp"

android:textSize="20dp"

android:textStyle="bold"

android:textColor="@color/black"

android:text="1" />

<Button

android:id="@+id/bttwo"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_margin="5dp"

android:textSize="20dp"

android:textStyle="bold"

android:textColor="@color/black"

android:text="2" />

<Button

android:id="@+id/btthree"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_margin="5dp"

android:textSize="20dp"

android:textStyle="bold"

android:textColor="@color/black"

android:text="3" />

<Button

android:id="@+id/btfour"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_margin="5dp"

android:textSize="20dp"

android:textStyle="bold"

android:textColor="@color/black"

android:text="4" />

<Button

android:id="@+id/btfive"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_margin="5dp"

android:textSize="20dp"

android:textStyle="bold"

android:textColor="@color/black"

android:text="5" />

<Button

android:id="@+id/btsix"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_margin="5dp"

android:textSize="20dp"

android:textStyle="bold"

android:textColor="@color/black"

android:text="6" />

<Button

android:id="@+id/btseven"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_margin="5dp"

android:textSize="20dp"

android:textStyle="bold"

android:textColor="@color/black"

android:text="7" />

<Button

android:id="@+id/bteight"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_margin="5dp"

android:textSize="20dp"

android:textStyle="bold"

android:textColor="@color/black"

android:text="8" />

<Button

android:id="@+id/btnine"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_margin="5dp"

android:textSize="20dp"

android:textStyle="bold"

android:textColor="@color/black"

android:text="9" />

<Button

android:id="@+id/btzero"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_margin="5dp"

android:textSize="20dp"

android:textStyle="bold"

android:textColor="@color/black"

android:text="0" />

<Button

android:id="@+id/btequal"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_margin="5dp"

android:textSize="20dp"

android:textStyle="bold"

android:textColor="@color/black"

android:text="=" />

<Button

android:id="@+id/btcancel"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_margin="5dp"

android:textSize="20dp"

android:textStyle="bold"

android:textColor="@color/black"

android:text="c" />

</GridLayout>

</LinearLayout>

package com.example.gridlayout;

import androidx.appcompat.app.AppCompatActivity;

import android.content.SharedPreferences;

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;

Button add,sub,mul,div,equal,cancel,one,two,three,four,five,six,seven,eight,nine,zero;

float temp1,temp2;

String op="";

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.*activity\_main*);

result=(EditText) findViewById(R.id.*etresult*);

add=(Button) findViewById(R.id.*btplus*);

sub=(Button) findViewById(R.id.*btminus*);

mul=(Button) findViewById(R.id.*btmul*);

div=(Button) findViewById(R.id.*btdiv*);

cancel=(Button) findViewById(R.id.*btcancel*);

equal=(Button) findViewById(R.id.*btequal*);

one=(Button) findViewById(R.id.*btone*);

two=(Button) findViewById(R.id.*bttwo*);

three=(Button) findViewById(R.id.*btthree*);

four=(Button) findViewById(R.id.*btfour*);

five=(Button) findViewById(R.id.*btfive*);

six=(Button) findViewById(R.id.*btsix*);

seven=(Button) findViewById(R.id.*btseven*);

eight=(Button) findViewById(R.id.*bteight*);

nine=(Button) findViewById(R.id.*btnine*);

zero=(Button) findViewById(R.id.*btzero*);

add.setOnClickListener(this);

sub.setOnClickListener(this);

mul.setOnClickListener(this);

div.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);

zero.setOnClickListener(this);

equal.setOnClickListener(this);

cancel.setOnClickListener(this);

}

@Override

public void onClick(View v) {

Button b=(Button) v;

if(v==cancel) {

result.setText("");

}

else if (v==add||v==sub||v==mul||v==div)

{

temp1=Float.*parseFloat*(result.getText().toString());

op=b.getText().toString();

result.setText("");

}

else if (v==equal)

{

temp2=Float.*parseFloat*(result.getText().toString());

if (op.equals("+"))

result.setText(temp1+temp2+"");

else if(op.equals("-"))

result.setText(temp1-temp2+"");

else if(op.equals("\*"))

result.setText(temp1\*temp2+"");

else if(op.equals("/"))

result.setText(temp1/temp2+"");

}

else

{

String s=result.getText().toString();

result.setText(s+b.getText().toString());

}

}

}