**activity\_main.kt:**

package com.example.calculator  
  
import androidx.appcompat.app.AppCompatActivity  
import android.os.Bundle  
import android.view.View  
import android.widget.Button  
import kotlinx.android.synthetic.main.activity\_main.\*  
import android.widget.EditText  
  
class MainActivity : AppCompatActivity() {  
 var isNewOp = true  
 var oldNumber = ""  
 var op = "+"  
 override fun onCreate(savedInstanceState: Bundle?) {  
 super.onCreate(savedInstanceState)  
 setContentView(R.layout.*activity\_main*)  
 }  
  
 fun numberEvent(view: View) {  
 if(isNewOp)  
 editText.setText("")  
 isNewOp = false  
 var buclick:String = editText.*text*.toString()  
 var buselect:Button = view as Button  
 when(buselect.*id*){  
 bu1.*id* -> {buclick += "1"}  
 bu2.*id* -> {buclick += "2"}  
 bu3.*id* -> {buclick += "3"}  
 bu4.*id* -> {buclick += "4"}  
 bu5.*id* -> {buclick += "5"}  
 bu6.*id* -> {buclick += "6"}  
 bu7.*id* -> {buclick += "7"}  
 bu8.*id* -> {buclick += "8"}  
 bu9.*id* -> {buclick += "9"}  
 bu0.*id* -> {buclick += "0"}  
 buDot.*id* -> {buclick += "."}  
 buPlusMinus.*id* -> {buclick = "-$buclick"}  
 }  
 editText.setText(buclick)  
 }  
  
 fun operatorEvent(view: View) {  
 isNewOp = true  
 oldNumber = editText.*text*.toString()  
 var buselect :Button = view as Button  
 when(buselect.*id*){  
 buMultiply.*id* -> {op = "\*"}  
 buDivide.*id* -> {op = "/"}  
 buPlus.*id* -> {op = "+"}  
 buSubtract.*id* -> {op = "-"}  
 }  
 }  
  
 fun equalEvent(view: View) {  
 var newnumber :String = editText.*text*.toString()  
 var result = 0.0  
 when(op){  
 "+" -> {result = oldNumber.*toDouble*() + newnumber.*toDouble*()}  
 "\*" -> {result = oldNumber.*toDouble*() \* newnumber.*toDouble*()}  
 "/" -> {result = oldNumber.*toDouble*() / newnumber.*toDouble*()}  
 "-" -> {result = oldNumber.*toDouble*() - newnumber.*toDouble*()}  
 }  
 editText.setText(result.toString())  
 }  
  
 fun acEvent(view: View) {  
 editText.setText("0")  
 isNewOp = true  
 }  
  
 fun percentEvent(view: View) {  
 var no :Double= editText.*text*.toString().*toDouble*()/100  
 editText.setText(no.toString())  
 isNewOp = true  
 }  
  
}

**activity\_main.xml:**

<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout  
 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:orientation="vertical"  
 tools:context=".MainActivity">  
  
 <EditText  
 android:id="@+id/editText"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:layout\_weight="1"  
 android:background="@color/gray"  
 android:inputType="textPersonName"  
 android:textSize="40pt"  
 android:gravity="right|center"  
 android:text="0" />  
  
 <TableLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content">  
  
  
 <TableRow  
 android:layout\_marginBottom="1pt"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent">  
 <Button  
 android:layout\_weight="1"  
 android:id="@+id/buAC"  
 android:layout\_width="30pt"  
 android:layout\_height="30pt"  
 android:text="AC"  
 android:onClick="acEvent"  
 android:layout\_marginRight="2pt"  
 android:background="@color/ocean"  
  
 ></Button>  
 <Button android:layout\_weight="1"  
 android:id="@+id/buPlusMinus"  
 android:layout\_width="30pt"  
 android:layout\_height="30pt"  
 android:text="+/-"  
 android:onClick="operatorEvent"  
  
 android:layout\_marginRight="2pt"  
 android:background="@color/ocean"  
  
 ></Button>  
 <Button android:layout\_weight="1"  
 android:id="@+id/buDivide"  
 android:layout\_width="30pt"  
 android:layout\_height="30pt"  
 android:text="/"  
 android:onClick="operatorEvent"  
 android:layout\_marginRight="2pt"  
 android:background="@color/ocean"  
  
 ></Button>  
 <Button android:layout\_weight="1"  
 android:id="@+id/buMultiply"  
 android:layout\_width="30pt"  
 android:layout\_height="30pt"  
 android:text="\*"  
 android:onClick="operatorEvent"  
 android:background="@color/blueback"  
  
 ></Button>  
 </TableRow>  
  
  
 <TableRow  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:layout\_marginBottom="1pt">  
 <Button android:layout\_weight="1"  
 android:id="@+id/bu7"  
 android:layout\_width="30pt"  
 android:layout\_height="30pt"  
 android:text="7"  
 android:onClick="numberEvent"  
 android:layout\_marginRight="2pt"  
 android:background="@color/ocean"  
  
 ></Button>  
 <Button android:layout\_weight="1"  
 android:id="@+id/bu8"  
 android:layout\_width="30pt"  
 android:layout\_height="30pt"  
 android:text="8"  
 android:onClick="numberEvent"  
 android:layout\_marginRight="2pt"  
 android:background="@color/blueback"  
  
 ></Button>  
 <Button android:layout\_weight="1"  
 android:id="@+id/bu9"  
 android:layout\_width="30pt"  
 android:layout\_height="30pt"  
 android:text="9"  
 android:onClick="numberEvent"  
 android:layout\_marginRight="2pt"  
 android:background="@color/blueback"  
  
 ></Button>  
 <Button android:layout\_weight="1"  
 android:id="@+id/buPercent"  
 android:layout\_width="30pt"  
 android:layout\_height="30pt"  
 android:text="%"  
 android:onClick="percentEvent"  
 android:background="@color/blueback"  
  
 ></Button>  
 </TableRow>  
 <TableRow  
 android:layout\_marginBottom="1pt"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent">  
 <Button android:layout\_weight="1"  
 android:id="@+id/bu4"  
 android:layout\_width="30pt"  
 android:layout\_height="30pt"  
 android:text="4"  
 android:onClick="numberEvent"  
 android:layout\_marginRight="2pt"  
 android:background="@color/blueback"  
  
 ></Button>  
 <Button android:layout\_weight="1"  
 android:id="@+id/bu5"  
 android:layout\_width="30pt"  
 android:layout\_height="30pt"  
 android:text="5"  
 android:onClick="numberEvent"  
 android:layout\_marginRight="2pt"  
 android:background="@color/blueback"  
  
 ></Button>  
 <Button android:layout\_weight="1"  
 android:id="@+id/bu6"  
 android:layout\_width="30pt"  
 android:layout\_height="30pt"  
 android:text="6"  
 android:onClick="numberEvent"  
 android:layout\_marginRight="2pt"  
 android:background="@color/blueback"  
  
 ></Button>  
 <Button android:layout\_weight="1"  
 android:id="@+id/buPlus"  
 android:layout\_width="30pt"  
 android:layout\_height="30pt"  
 android:text="+"  
 android:onClick="operatorEvent"  
 android:background="@color/blueback"  
  
 ></Button>  
 </TableRow>  
  
  
 <TableRow  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:layout\_marginBottom="1pt"  
 >  
 <Button android:layout\_weight="1"  
 android:id="@+id/bu1"  
 android:layout\_width="30pt"  
 android:layout\_height="30pt"  
 android:text="1"  
 android:onClick="numberEvent"  
 android:layout\_marginRight="2pt"  
 android:background="@color/blueback"  
  
 ></Button>  
 <Button android:layout\_weight="1"  
 android:id="@+id/bu2"  
 android:layout\_width="30pt"  
 android:layout\_height="30pt"  
 android:text="2"  
 android:onClick="numberEvent"  
 android:layout\_marginRight="2pt"  
 android:background="@color/blueback"  
  
 ></Button>  
 <Button android:layout\_weight="1"  
 android:id="@+id/bu3"  
 android:layout\_width="30pt"  
 android:layout\_height="30pt"  
 android:text="3"  
 android:onClick="numberEvent"  
 android:layout\_marginRight="2pt"  
 android:background="@color/blueback"  
  
 ></Button>  
 <Button android:layout\_weight="1"  
 android:id="@+id/buSubtract"  
 android:layout\_width="30pt"  
 android:layout\_height="30pt"  
 android:text="-"  
 android:onClick="operatorEvent"  
 android:background="@color/blueback"  
  
 ></Button>  
 </TableRow>  
  
  
  
 </TableLayout>  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:orientation="horizontal"  
 android:layout\_height="wrap\_content">  
 <Button android:layout\_weight="2"  
 android:id="@+id/bu0"  
 android:layout\_width="30pt"  
 android:layout\_height="30pt"  
 android:text="0"  
 android:onClick="numberEvent"  
 android:layout\_marginRight="2pt"  
 android:background="@color/blueback"  
  
 ></Button>  
 <Button android:layout\_weight="2"  
 android:id="@+id/buDot"  
 android:layout\_width="30pt"  
 android:layout\_height="30pt"  
 android:text="."  
 android:onClick="numberEvent"  
 android:layout\_marginRight="2pt"  
 android:background="@color/blueback"  
  
 ></Button>  
 <Button android:layout\_weight="2"  
 android:id="@+id/buEqual"  
 android:layout\_width="30pt"  
 android:layout\_height="30pt"  
 android:text="="  
 android:onClick="equalEvent"  
 android:layout\_marginRight="2pt"  
 android:background="@color/blueback"  
  
 ></Button>  
 </LinearLayout>  
 </LinearLayout>

**Colors:**

<?xml version="1.0" encoding="utf-8"?>  
<resources>  
 <color name="purple\_200">#FFBB86FC</color>  
 <color name="purple\_500">#FF6200EE</color>  
 <color name="purple\_700">#FF3700B3</color>  
 <color name="teal\_200">#FF03DAC5</color>  
 <color name="teal\_700">#FF018786</color>  
 <color name="black">#FF000000</color>  
 <color name="white">#FFFFFFFF</color>  
 <color name="gray">#BCBCBC</color>  
 <color name="blueback">#7784F8</color>  
 <color name="ocean">#919191</color>  
</resources>