**activity\_main.xml**

<?xml version="1.0" encoding="utf-8"?>  
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 xmlns:tools="http://schemas.android.com/tools"  
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 tools:context=".MainActivity">  
  
  
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 android:onClick="numberEvent"  
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 android:textColor="@color/white"  
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 android:background="@color/purple\_200"  
 android:onClick="operatorEvent"  
 android:text="@string/div"  
 android:textColor="@color/white"  
 android:textSize="30dp"  
 tools:ignore="TextContrastCheck">  
  
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 android:onClick="numberEvent"  
 android:text="@string/\_4"  
 android:textColor="@color/white"  
 android:textSize="30dp"  
 tools:ignore="TextContrastCheck">  
  
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 android:onClick="numberEvent"  
 android:text="@string/\_5"  
 android:textColor="@color/white"  
 android:textSize="30dp"  
 tools:ignore="TextContrastCheck">  
  
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 android:onClick="numberEvent"  
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 android:textColor="@color/white"  
 android:textSize="30dp"  
 tools:ignore="TextContrastCheck">  
  
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 android:onClick="operatorEvent"  
 android:text="@string/multiply"  
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 tools:ignore="TextContrastCheck">  
  
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 android:onClick="numberEvent"  
 android:text="@string/one"  
 android:textColor="@color/white"  
 android:textSize="30dp"  
 tools:ignore="TextContrastCheck">  
  
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 android:layout\_marginRight="1pt"  
 android:layout\_weight="1"  
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 android:onClick="numberEvent"  
 android:text="@string/two"  
 android:textColor="@color/white"  
 android:textSize="30dp"  
 tools:ignore="TextContrastCheck">  
  
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 android:onClick="numberEvent"  
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 android:textColor="@color/white"  
 android:textSize="30dp"  
 tools:ignore="TextContrastCheck">  
  
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 android:layout\_height="30pt"  
 android:layout\_marginRight="1pt"  
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 android:text="@string/percent"  
 android:textColor="@color/white"  
 android:textSize="30dp"  
 tools:ignore="TextContrastCheck">  
  
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 android:onClick="numberEvent"  
 android:text="@string/zero"  
 android:textColor="@color/white"  
 android:textSize="30dp"  
 tools:ignore="TextContrastCheck">  
  
 </Button>  
  
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 android:layout\_height="30pt"  
 android:layout\_marginRight="1pt"  
 android:layout\_weight="1"  
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 android:onClick="numberEvent"  
 android:text="."  
 android:textColor="@color/white"  
 android:textSize="30dp"  
 tools:ignore="TextContrastCheck">  
  
 </Button>  
  
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 android:id="@+id/btnPlus"  
 android:layout\_width="30pt"  
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 android:layout\_marginRight="1pt"  
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 android:onClick="operatorEvent"  
 android:text="@string/plus"  
 android:textColor="@color/white"  
 android:textSize="30dp"  
 tools:ignore="TextContrastCheck,TextContrastCheck">  
  
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 android:layout\_weight="1"  
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 android:textColor="@color/white"  
 android:textSize="30dp"  
 tools:ignore="TextContrastCheck">  
  
 </Button>  
  
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 android:layout\_width="30pt"  
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 android:layout\_marginRight="1pt"  
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 android:text="@string/equal"  
 android:textColor="@color/white"  
 android:textSize="30dp"  
 tools:ignore="TextContrastCheck">  
 </Button>  
 </TableRow>  
  
 </TableLayout>  
</LinearLayout>

**MainActivity.java**

package com.example.tutorial;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.view.View;  
import android.widget.EditText;  
  
public class MainActivity extends AppCompatActivity {  
 boolean isNewOperator = true;  
 EditText edt1;  
 String operator = "+";  
 String initialNumber = "";  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 edt1 = findViewById(R.id.*editText*);  
 }  
  
  
 public void numberEvent(View view) {  
  
 if(isNewOperator)  
 edt1.setText("");  
 isNewOperator = false;  
  
 String number = edt1.getText().toString();  
  
 if(view.getId() == R.id.*btnOne*){  
 number += "1";  
 }  
 else if(view.getId() == R.id.*btnTwo*){  
 number += "2";  
 }  
 else if(view.getId() == R.id.*btnThree*){  
 number += "3";  
 }  
 else if(view.getId() == R.id.*btnFour*){  
 number += "4";  
 }  
 else if(view.getId() == R.id.*btnFive*){  
 number += "5";  
 }  
 else if(view.getId() == R.id.*btnSix*){  
 number += "6";  
 }  
 else if(view.getId() == R.id.*btnSeven*){  
 number += "7";  
 }  
 else if(view.getId() == R.id.*btnEight*){  
 number += "8";  
 }  
 else if(view.getId() == R.id.*btnNine*){  
 number += "9";  
 }  
 else if(view.getId() == R.id.*btnZero*){  
 number += "0";  
 }  
  
 else if(view.getId() == R.id.*btnDot*){  
 number += ".";  
 }  
  
 edt1.setText(number);  
   
 }  
  
 public void operatorEvent(View view) {  
  
 isNewOperator =true;  
 initialNumber = edt1.getText().toString();  
  
 if(view.getId() == R.id.*btnMultiply*){  
 operator = "\*";}  
  
 else if(view.getId() == R.id.*btnMinus*){  
 operator = "-";}  
  
 else if(view.getId() == R.id.*btnDivide*){  
 operator = "/";}  
  
 else if(view.getId() == R.id.*btnPlus*){  
 operator = "+";  
 }  
  
  
 }  
  
 public void equalEvent(View view) {  
 String newNumber = edt1.getText().toString();  
 double output = 0.0;  
  
 if(operator == "+")  
 output = Double.*parseDouble*(initialNumber) + Double.*parseDouble*(newNumber);  
  
 if(operator == "/")  
 output = Double.*parseDouble*(initialNumber) / Double.*parseDouble*(newNumber);  
  
 if(operator == "\*")  
 output = Double.*parseDouble*(initialNumber) \* Double.*parseDouble*(newNumber);  
  
 if(operator == "-")  
 output = Double.*parseDouble*(initialNumber) - Double.*parseDouble*(newNumber);  
  
 edt1.setText(output+"");  
  
 }  
  
  
 public void clearEvent(View view) {  
 edt1.setText("0");  
 isNewOperator = true;  
 }  
  
 public void percentEvent(View view) {  
 double num = Double.*parseDouble*(edt1.getText().toString())/100;  
 edt1.setText(num+"");  
 isNewOperator = true;  
   
 }  
}