

```
<?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"
    tools:context=".MainActivity"
    android:orientation="vertical">

    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/result"
        android:layout_margin="40dp"
        android:textColor="@color/black"
        android:gravity="center"
    />

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal"
        android:gravity="center">

        <Button
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:id="@+id/nine"
            android:text="9">

        </Button>

        <Button
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:id="@+id/eight"
            android:text="8">

        </Button><Button
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:id="@+id/seven"
            android:text="7">

        </Button><Button
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:id="@+id/six"
            android:text="6">

        </Button>

    </LinearLayout>

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal"
        android:gravity="center">

        <Button
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:id="@+id/nine"
            android:text="9">

        </Button>

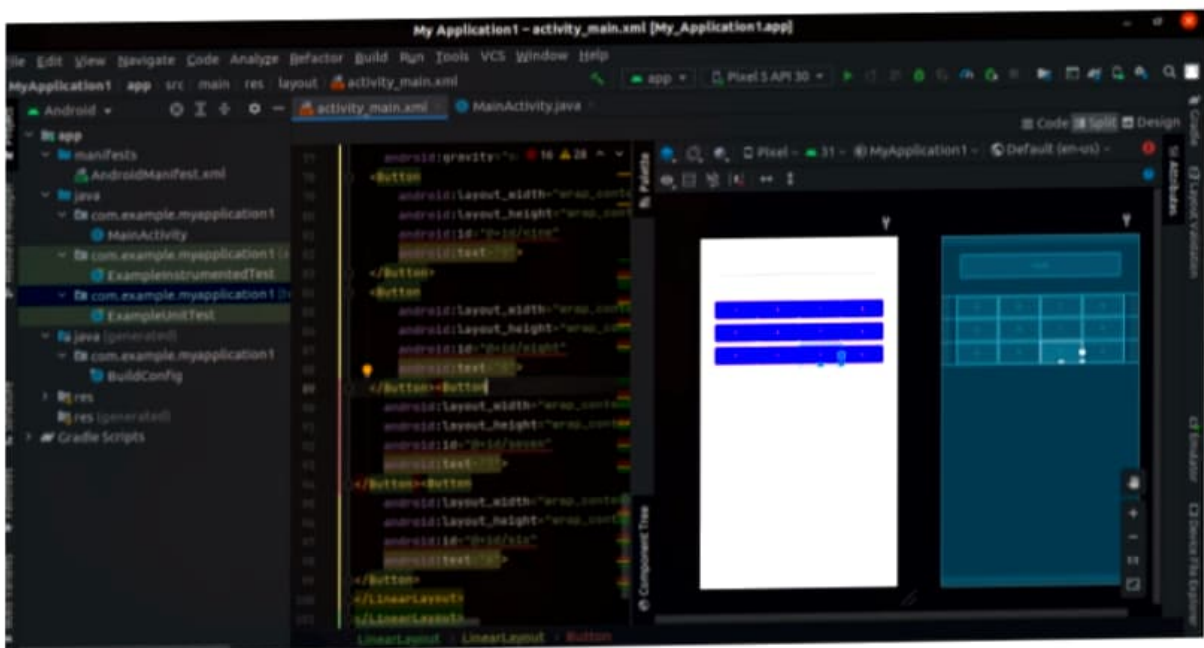
        <Button
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:id="@+id/eight"
            android:text="8">

        </Button><Button
```

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        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/seven"
        android:text="7">
</Button><Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/six"
        android:text="6">
</Button>
</LinearLayout><LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal"
        android:gravity="center">
<Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/nine"
        android:text="9">
</Button>
<Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/eight"
        android:text="8">
</Button><Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/seven"
        android:text="7">
</Button><Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/six"
        android:text="6">
</Button>
</LinearLayout>
</LinearLayout>

```



```

package com.example.calculator;

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 {

    Button nine, eight, seven, six, five, four, three, two, one, zero;
    Button plus, minus, multiply, divide, clear, equal;
    EditText Result;
    String operatorPressed = "";
    String c;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        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);
        zero=findViewById(R.id.zero);
        plus=findViewById(R.id.plus);
        minus=findViewById(R.id.minus);
        multiply=findViewById(R.id.multiply);
        divide=findViewById(R.id.divide);
        clear=findViewById(R.id.clear);
        equal=findViewById(R.id.equal);
        Result=findViewById(R.id.Result);

        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);
        plus.setOnClickListener(this);
        minus.setOnClickListener(this);
        multiply.setOnClickListener(this);
        divide.setOnClickListener(this);
        clear.setOnClickListener(this);
        equal.setOnClickListener(this);
    }
}

```

```

@Override
public void onClick(View v) {
    double finalResult=0.0;
    switch(v.getId()) {
        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.zero:
            Result.append("0");
            break;
        case R.id.plus:
            Result.append("+");
            operatorPressed = "+";
            break;
        case R.id.minus:
            Result.append("-");
            operatorPressed = "-";
            break;
        case R.id.multiply:
            Result.append("*");
            operatorPressed = "*";
            break;
        case R.id.divide:
            Result.append("/");
            operatorPressed = "/";
            break;
        case R.id.equal:
            finalResult = evaluateExpression(Result.getText().toString(), operatorPressed);
            Result.setText(String.valueOf(finalResult));
            break;
        case R.id.clear:c=" ";
            Result.setText(String.valueOf(c));;
        default:
            break;
    }
}

```

## Calculator

Calculator

 $6+8$ 

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# Calculator

Calculator

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# Calculator

6+8

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