

## JAVA CODE –

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package com.example.calculator;

import androidx.appcompat.app.AppCompatActivity;
import android.view.View;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Button;
import android.os.Bundle;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
    private EditText opr1;
    private EditText opr2;
    private Button btnadd;
    private Button btnsub;
    private Button btnmul;
    private Button btndiv;
    private Button btnclr;
    private TextView txtresult;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        opr1 = (EditText) findViewById(R.id.editTextNumber3);
        opr2 = (EditText) findViewById(R.id.editTextNumber4);
        btnadd = (Button) findViewById(R.id.button);
        btnsub = (Button) findViewById(R.id.button2);
        btnmul = (Button) findViewById(R.id.button3);
        btndiv = (Button) findViewById(R.id.button4);
        // btnclr = (Button) findViewById(R.id.btncclr);
        txtresult = (TextView) findViewById(R.id.editTextTextPersonName2);
        // Addition
        btnadd.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                if ((opr1.getText().length() > 0) &&
                    (opr2.getText().length() > 0)) {
                    double oper1 =
                        Double.parseDouble(opr1.getText().toString());

                    double oper2 =
                        Double.parseDouble(opr2.getText().toString());
                    double result = oper1 + oper2;
                    txtresult.setText(Double.toString(result));
                } else {
                    Toast toast = Toast.makeText(MainActivity.this, "Enter
The Required Numbers", Toast.LENGTH_LONG);
                    toast.show();
                }
            }
        });
        btnsub.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                if ((opr1.getText().length() > 0) &&
                    (opr2.getText().length() > 0))
                {
                    double oper1 =
                        Double.parseDouble(opr1.getText().toString());
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        double oper2 =
            Double.parseDouble(opr2.getText().toString());
        double result = oper1 - oper2;
        txtresult.setText(Double.toString(result));
    }
    else{
        Toast toast= Toast.makeText(MainActivity.this,"Enter
The Required Numbers",Toast.LENGTH_LONG);
        toast.show();
    }
}

});
// Multiplication
btnmul.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        if((opr1.getText().length()>0) &&
            (opr2.getText().length()>0))
        {
            double oper1 =
                Double.parseDouble(opr1.getText().toString());
            double oper2 =
                Double.parseDouble(opr2.getText().toString());
            double result = oper1 * oper2;

            txtresult.setText(Double.toString(result));

        }
        else{
            Toast toast= Toast.makeText(MainActivity.this,"Enter
The Required Numbers",Toast.LENGTH_LONG);
            toast.show();
        }
    }
});
// Division
btndiv.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        if((opr1.getText().length()>0) &&
            (opr2.getText().length()>0))
        {
            double oper1 =
                Double.parseDouble(opr1.getText().toString());
            double oper2 =
                Double.parseDouble(opr2.getText().toString());
            double result = oper1 / oper2;

            txtresult.setText(Double.toString(result));

        }
        else{
            Toast toast= Toast.makeText(MainActivity.this,"Enter
The Required Numbers",Toast.LENGTH_LONG);
            toast.show();
        }
    }
});
}
}

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## XML CODE –

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    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">
    <TextView
        android:id="@+id/textView4"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
    <TextView
        android:id="@+id/textView2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Number 2"
        android:textSize="34sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.214"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
    <Button
        android:id="@+id/button"
        android:layout_width="86dp"
        android:layout_height="52dp"
        android:background="#000000"
        android:backgroundTint="#000000"
        android:text="+"
        android:textSize="24sp"

        android:textStyle="bold"
        app:iconTint="#FFDFDF"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.049"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="@+id/textView4"
        app:layout_constraintVertical_bias="0.693" />
    <EditText
        android:id="@+id/editTextTextPersonName2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:inputType="textPersonName"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.497"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.848" />
    <TextView
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        android:id="@+id/textView3"
        android:layout_width="226dp"
        android:layout_height="78dp"
        android:text="Calculator"
        android:textColor="#000000"
        android:textSize="48sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.459"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.137" />
    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Number 1"
        android:textSize="34sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.212"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.364" />
    <EditText
        android:id="@+id/editTextNumber3"
        android:layout_width="168dp"
        android:layout_height="46dp"
        android:ems="10"
        android:inputType="number"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.893"
        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.363" />
    <EditText
        android:id="@+id/editTextNumber4"
        android:layout_width="172dp"
        android:layout_height="44dp"
        android:ems="10"
        android:inputType="number"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.912"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.499" />
    <Button
        android:id="@+id/button2"
        android:layout_width="85dp"
        android:layout_height="61dp"
        android:text="-"
        android:textSize="24sp"
        android:textStyle="bold"
        app:iconTint="#FFFBFB"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"

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app:layout_constraintHorizontal_bias="0.371"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.702" />
<Button
    android:id="@+id/button3"
    android:layout_width="83dp"
    android:layout_height="56dp"
    android:text="*"
    android:textColor="#FFFEFE"
    android:textSize="24sp"
    android:textStyle="bold"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.664"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.703" />
<Button
    android:id="@+id/button4"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="/"
    android:textColor="#FFFEFE"
    android:textSize="24sp"
    android:textStyle="bold"
    app:iconTint="#FFDFDF"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.984"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.699" />

</androidx.constraintlayout.widget.ConstraintLayout>
```