**Simple calculator**

**activity\_main.xml**

<?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:padding="20dp"

android:orientation="vertical"

android:background="@color/pastel">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="CALCULATOR"

android:textSize="25sp"

android:layout\_marginBottom="16dp"

android:textColor="@android:color/black" />

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="horizontal"

android:layout\_marginBottom="20dp">

<EditText

android:id="@+id/first\_no"

android:layout\_width="102dp"

android:layout\_height="59dp"

android:ems="10"

android:layout\_marginHorizontal="50dp"

android:hint="Enter" />

<EditText

android:id="@+id/second\_no"

android:layout\_width="102dp"

android:layout\_height="59dp"

android:ems="10"

android:hint="Enter" />

</LinearLayout>

<LinearLayout

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:orientation="horizontal"

android:layout\_marginBottom="20dp">

<TextView

android:textSize="35sp"

android:id="@+id/answer"

android:layout\_width="102dp"

android:layout\_height="59dp"

android:layout\_marginHorizontal="50dp"

android:hint="ans" />

</LinearLayout>

<LinearLayout

android:orientation="vertical"

android:layout\_marginLeft="250dp"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginBottom="30dp">

<Button

android:id="@+id/sub"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="-"

android:textSize="25sp"

android:layout\_marginBottom="16dp" />

<Button

android:id="@+id/add"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginBottom="16dp"

android:text="+"

android:textSize="25sp"

tools:ignore="OnClick" />

<Button

android:id="@+id/div"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="/"

android:textSize="25sp"

android:layout\_marginBottom="16dp" />

<Button

android:id="@+id/mul"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginBottom="16dp"

android:text="X"

android:textSize="25sp"/>

<Button

android:id="@+id/equals"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginBottom="16dp"

android:text="="

android:textSize="35sp"/>

</LinearLayout>

</LinearLayout>

**MainActivity.java**

package com.example.basiccalculator;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.TextView;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

EditText no1 , no2;

Button add ,mul ,div , sub,equal;

TextView answer;

double ans = 0;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

no1 = findViewById(R.id.first\_no);

no2 = findViewById(R.id.second\_no);

add = findViewById(R.id.add);

mul = findViewById(R.id.mul);

div = findViewById(R.id.div);

sub = findViewById(R.id.sub);

equal = findViewById(R.id.equals);

answer = findViewById(R.id.answer);

add.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

String num1 = no1.getText().toString();

String num2 = no2.getText().toString();

if (num1.isEmpty() || num2.isEmpty()) {

Toast.makeText(getApplicationContext(),"Enter Numbers",Toast.LENGTH\_SHORT).show();

}

else {

double a = Double.parseDouble(no1.getText().toString());

double b = Double.parseDouble(no2.getText().toString());

ans = a + b;

}

}

});

sub.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

String num1 = no1.getText().toString();

String num2 = no2.getText().toString();

if (num1.isEmpty() || num2.isEmpty()) {

Toast.makeText(getApplicationContext(),"Enter Numbers",Toast.LENGTH\_SHORT).show();

}

else {

double a = Double.parseDouble(no1.getText().toString());

double b = Double.parseDouble(no2.getText().toString());

ans = a - b;

}

}

});

mul.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

String num1 = no1.getText().toString();

String num2 = no2.getText().toString();

if (num1.isEmpty() || num2.isEmpty()) {

Toast.makeText(getApplicationContext(),"Enter Numbers",Toast.LENGTH\_SHORT).show();

}

else {

double a = Double.parseDouble(no1.getText().toString());

double b = Double.parseDouble(no2.getText().toString());

ans = a \* b;

}

}

});

div.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

String num1 = no1.getText().toString();

String num2 = no2.getText().toString();

if (num1.isEmpty() || num2.isEmpty()) {

Toast.makeText(getApplicationContext(), "Enter Numbers", Toast.LENGTH\_SHORT).show();

} else {

double a = Double.parseDouble(no1.getText().toString());

double b = Double.parseDouble(no2.getText().toString());

if (b != 0)

ans = a / b;

else

Toast.makeText(getApplicationContext(), "Enter Valid Numbers", Toast.LENGTH\_SHORT).show();

}

}

});

equal.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

String ans1 = String.valueOf(ans);

answer.setText(ans1);

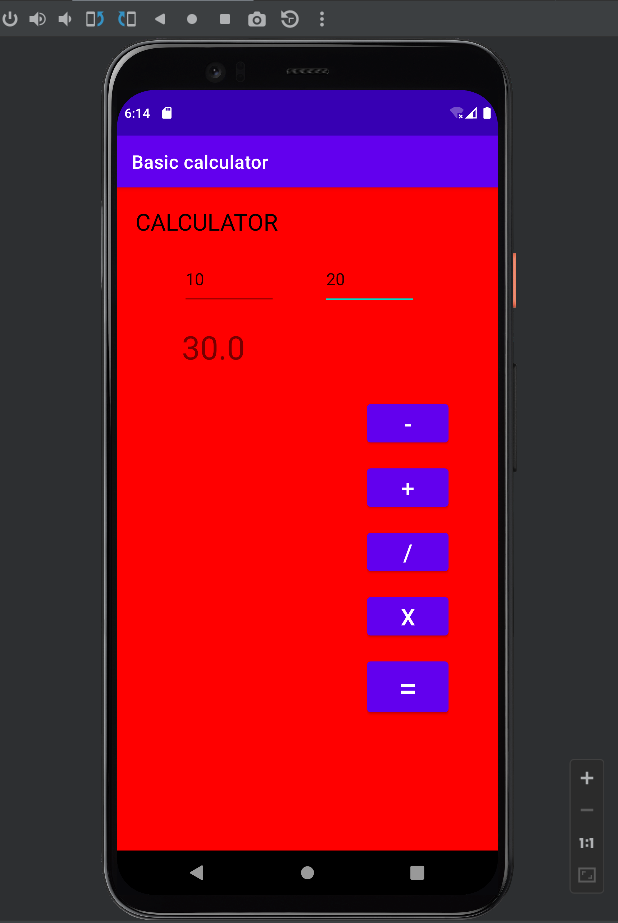
ans= 0;

}

});

}}

**Output:**

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