**Practical No. 2**

**Aim:** Program to create Simple Calculator

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**Class:** BAC-III Sem-V

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**Code:**

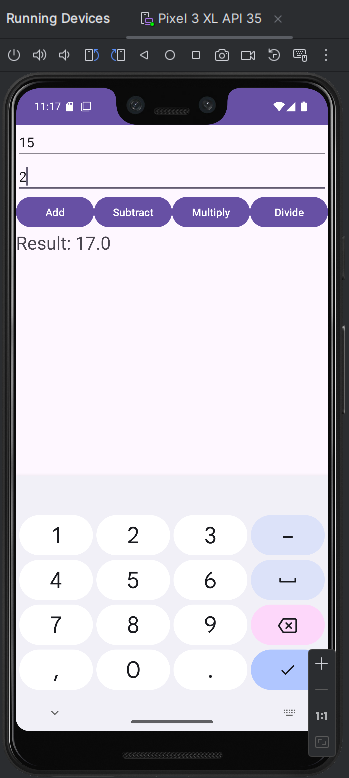
**MainActivity.java**  
package com.example.simplecalculator;  
import androidx.appcompat.app.AppCompatActivity;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.TextView;  
public class MainActivity extends AppCompatActivity

{  
 EditText number1, number2;  
 Button addButton, subtractButton, multiplyButton, divideButton;  
 TextView result;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 number1 = findViewById(R.id.*number1*);  
 number2 = findViewById(R.id.*number2*);  
 addButton = findViewById(R.id.*addButton*);  
 subtractButton = findViewById(R.id.*subtractButton*);  
 multiplyButton = findViewById(R.id.*multiplyButton*);  
 divideButton = findViewById(R.id.*divideButton*);  
 result = findViewById(R.id.*result*);  
  
 addButton.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 double num1 = Double.*parseDouble*(number1.getText().toString());  
 double num2 = Double.*parseDouble*(number2.getText().toString());  
 double res = num1 + num2;  
 result.setText("Result: " + res);  
 }  
 });  
  
 subtractButton.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 double num1 = Double.*parseDouble*(number1.getText().toString());  
 double num2 = Double.*parseDouble*(number2.getText().toString());  
 double res = num1 - num2;  
 result.setText("Result: " + res);  
 }  
 });  
  
 multiplyButton.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 double num1 = Double.*parseDouble*(number1.getText().toString());  
 double num2 = Double.*parseDouble*(number2.getText().toString());  
 double res = num1 \* num2;  
 result.setText("Result: " + res);  
 }  
 });  
  
 divideButton.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 double num1 = Double.*parseDouble*(number1.getText().toString());  
 double num2 = Double.*parseDouble*(number2.getText().toString());  
 double res = num1 / num2;  
 result.setText("Result: " + res);  
 }  
 });  
 }  
}

**Activity\_main.xml**

<?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">  
  
  
 <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"  
 android:orientation="vertical"  
 tools:context=".MainActivity">  
  
 <EditText  
 android:id="@+id/number1"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:inputType="numberDecimal"  
 android:hint="Enter first number" />  
  
 <EditText  
 android:id="@+id/number2"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:inputType="numberDecimal"  
 android:hint="Enter second number" />  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal">  
  
 <Button  
 android:id="@+id/addButton"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="Add" />  
  
 <Button  
 android:id="@+id/subtractButton"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="Subtract" />  
  
 <Button  
 android:id="@+id/multiplyButton"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="Multiply" />  
  
 <Button  
 android:id="@+id/divideButton"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="Divide" />  
 </LinearLayout>  
  
 <TextView  
 android:id="@+id/result"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:textSize="24sp"  
 android:text="Result will be displayed here" />  
 </LinearLayout>  
  
</androidx.constraintlayout.widget.ConstraintLayout>

**Output:**

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