

PRACTICAL:2

AIM: Create an android application to calculate the sum of two numbers and gives result in Toast Message.

Source Code:

Java File/s:

MainActivity.java

```
package com.example.addition;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Toast;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity {

    EditText number1;
    EditText number2;
    Button Add_button;
    TextView result;
    int ans=0;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        number1=(EditText) findViewById(R.id.editText_first_no);
        number2=(EditText) findViewById(R.id.editText_second_no);
        Add_button=(Button) findViewById(R.id.add_button);
        result = (TextView) findViewById(R.id.textView_answer);

        Add_button.setOnClickListener(new View.OnClickListener() {

            public void onClick(View v) {

                double num1 = Double.parseDouble(number1.getText().toString());
                double num2 = Double.parseDouble(number2.getText().toString());
                double sum = num1 + num2;

                Toast.makeText(MainActivity.this,"sum is : "+sum,Toast.LENGTH_SHORT).show();
```

```

    }
    });
}
}

```

Layout File/s: activity_main.xml

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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="com.example.addition.MainActivity"
    tools:layout_editor_absoluteY="81dp">

    <!-- Text view for result view-->
    <TextView
        android:id="@+id/textView_answer"
        android:layout_width="100dp"
        android:layout_height="25dp"
        android:layout_marginLeft="130dp"
        android:layout_marginTop="300dp"
        android:text="0"
        android:textSize="20dp"
        android:textStyle="bold" />

    <!--take the input first number-->
    <EditText
        android:id="@+id/editText_first_no"
        android:layout_width="150dp"
        android:layout_height="40dp"
        android:layout_marginLeft="200dp"
        android:layout_marginTop="40dp"
        android:inputType="number" />
    <!-- for messege input first number-->
    <TextView
        android:id="@+id/textView_first_no"
        android:layout_width="150dp"
        android:layout_height="25dp"
        android:layout_marginLeft="10dp"
        android:layout_marginTop="50dp"
        android:text="First number"
        android:textSize="20dp" />

    <!--view messege -->
    <TextView
        android:id="@+id/textView_second_no"
        android:layout_width="150dp"

```

```
        android:layout_height="25dp"
        android:layout_marginLeft="10dp"
        android:layout_marginTop="100dp"
        android:text="Second number"
        android:textSize="20dp" />

<!-- take input for second number -->

<EditText
    android:id="@+id/editText_second_no"
    android:layout_width="150dp"
    android:layout_height="40dp"
    android:layout_marginLeft="200dp"
    android:layout_marginTop="90dp"
    android:inputType="number"
    tools:ignore="MissingConstraints" />

<!-- button for run add logic and view result -->

<Button
    android:id="@+id/add_button"
    android:layout_width="100dp"
    android:layout_height="50dp"
    android:layout_marginLeft="110dp"
    android:layout_marginTop="200dp"
    android:text="ADD" />

</RelativeLayout>
```

Output:

The screenshot shows an Android application interface with a teal header bar labeled "Practical 2". Below the header, there are two input fields: "First number" with the value "22" and "Second number" with the value "35". A grey button labeled "ADD" is positioned below the input fields. Below the button, the number "0" is displayed. At the bottom of the screen, a light grey rounded rectangle contains the text "sum is : 57.0". The status bar at the top shows the time "2:04" and various icons. The bottom navigation bar shows the standard Android navigation icons.