#### **Phone Dialer**

# MainActivity.java

```
package com.example.a400_phonedialer;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
public class MainActivity extends AppCompatActivity {
  EditText phone;
  Button dial;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    phone = findViewById(R.id.phone);
    dial = findViewById(R.id.dial);
    dial.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View view) {
         Uri myUri = Uri.parse("tel:" +phone.getText().toString());
         Intent it = new Intent(Intent.ACTION_DIAL, myUri);
         startActivity(it);
       }
                   }
    );
}
```

### AndroidManifest.xml

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
   xmlns:tools="http://schemas.android.com/tools">

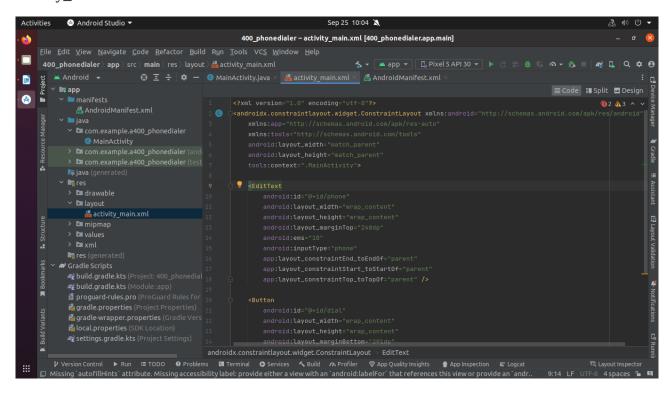
   <uses-feature
      android:name="android.hardware.telephony"
      android:required="false" />
```

```
<uses-permission android:name="android.permission.CALL_PHONE"/>
  <application
    android:allowBackup="true"
    android:dataExtractionRules="@xml/data_extraction_rules"
    android:fullBackupContent="@xml/backup_rules"
    android:icon="@mipmap/ic_launcher"
    android:label="@string/app_name"
    android:roundIcon="@mipmap/ic_launcher_round"
    android:supportsRtl="true"
    android:theme="@style/Theme._400_phonedialer"
    tools:targetApi="31">
    <activity
       android:name=".MainActivity"
      android:exported="true">
       <intent-filter>
         <action android:name="android.intent.action.MAIN" />
         <category android:name="android.intent.category.LAUNCHER" />
       </intent-filter>
    </activity>
  </application>
</manifest>
activity main.xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</p>
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">
  <EditText
    android:id="@+id/phone"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="248dp"
    android:ems="10"
    android:inputType="phone"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout constraintStart toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
  <Button
    android:id="@+id/dial"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
```

```
android:layout_marginBottom="291dp"
android:text="DIAL"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

### **Output Screenshots:**

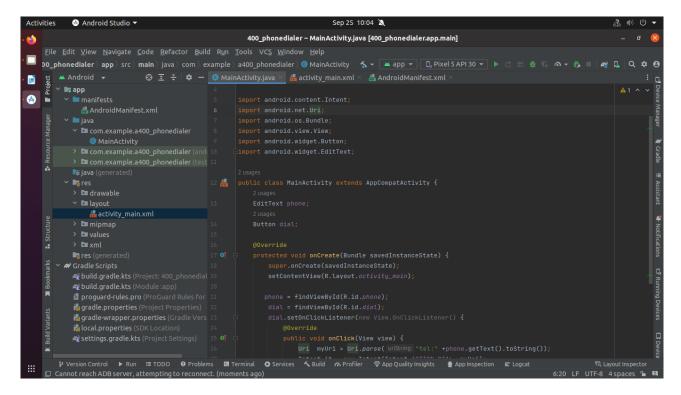
activity\_main.xml

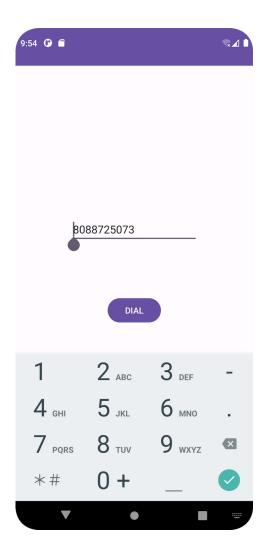


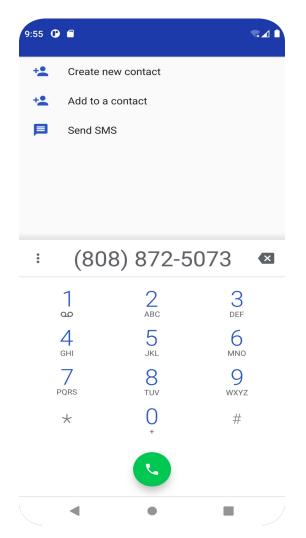
### AndroidManifest.xml

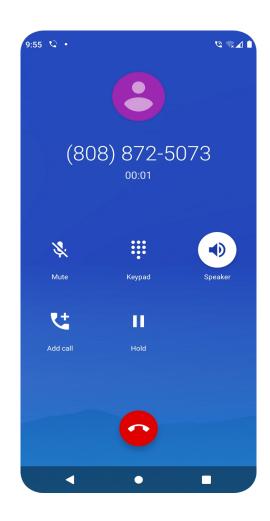
```
Activities ⊗ Android Studio ▼
                                                                                                                  Sep 25 10:04 🔪
                                                                                400_phonedialer - AndroidManifest.xml [400_phonedialer.app.main]
      <u>F</u>ile <u>E</u>dit <u>V</u>iew <u>N</u>avigate <u>C</u>ode <u>R</u>efactor <u>B</u>uild R<u>u</u>n <u>T</u>ools VC<u>S</u> <u>W</u>indow <u>H</u>elp
       400_phonedialer \rangle app \rangle src \rangle main \rangle \stackrel{\text{def}}{=} AndroidManifest.xml
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<u>(A)</u>
               com.example.a400_phonedialerMainActivity
                 > com.example.a400_phonedialer (and
> com.example.a400_phonedialer (test
                 > 🖿 mipmap
                                                                                         android:icon="@mipmap/ic_launcher"
android:label="480_phonedialer"
android:roundIcon="@mipmap/ic_launcher_rou
android:supportsRtl="true"
                                                                                          android:theme="@style/Theme._400_phonedialer"
tools:targetApi="31">
              能 build.gradle.kts (Project: 400_phonedial 19 能 build.gradle.kts (Module: app) 20 は proguard-rules.pro (ProGuard Rules for 21)
                 抗 gradle-wrapper.properties (Gradle Vers 2
           ⊅ Version Control ▶ Run :≣ TODO ❹ Problems 및 Terminal ❹ Services ፋ Build ෬ Profiler ♥ App Quality Insights ∰ App Inspection 로 Logcat
Cannot reach ADB server, attempting to reconnect. (moments ago)
```

# MainActivity.java









# **Simple Calculator**

```
MainActivity.java
package com.example.myapplication;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
public class MainActivity extends AppCompatActivity {
  EditText editTextNumber1, editTextNumber2;
  Button buttonSum;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    editTextNumber1 = findViewById(R.id.editTextNumber1);
    editTextNumber2 = findViewById(R.id.editTextNumber2);
    buttonSum = findViewById(R.id.buttonSum);
    buttonSum.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View view) {
         // Get input numbers
         double num1 = Double.parseDouble(editTextNumber1.getText().toString());
         double num2 = Double.parseDouble(editTextNumber2.getText().toString());
         // Perform the calculation
         double result = num1 + num2;
         // Start ResultActivity and pass the result
         Intent intent = new Intent(MainActivity.this, MainActivity2.class);
         intent.putExtra("result", result);
         startActivity(intent);
    });
  }
```

# MainActivity2.java

```
package com.example.myapplication;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.widget.TextView;
public class MainActivity2 extends AppCompatActivity {
  TextView textViewResult:
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main2);
    textViewResult = findViewById(R.id.textViewResult);
    // Get the result from the intent
    double result = getIntent().getDoubleExtra("result", 0.0);
    // Display the result
    textViewResult.setText("Result: " + result);
  }
}
activity_main.xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</p>
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">
  <EditText
    android:id="@+id/editTextNumber1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="85dp"
    android:ems="10"
    android:inputType="number"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
  <EditText
    android:id="@+id/editTextNumber2"
```

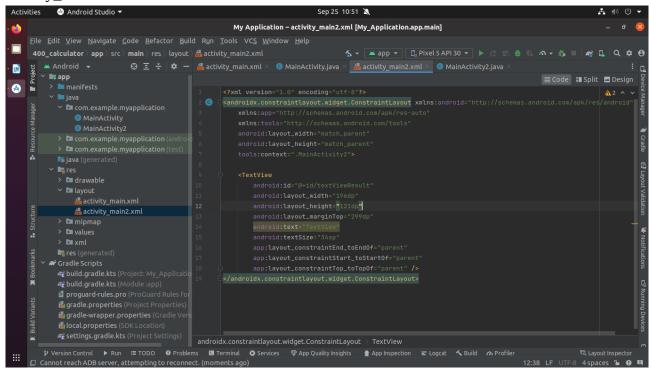
```
android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="1dp"
    android:layout marginTop="51dp"
    android:ems="10"
    android:inputType="number"
    app:layout_constraintStart_toStartOf="@+id/editTextNumber1"
    app:layout_constraintTop_toBottomOf="@+id/editTextNumber1" />
  <Button
    android:id="@+id/buttonSum"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:layout marginTop="46dp"
    android:text="Button"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/editTextNumber2" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

### activity\_main2.xml

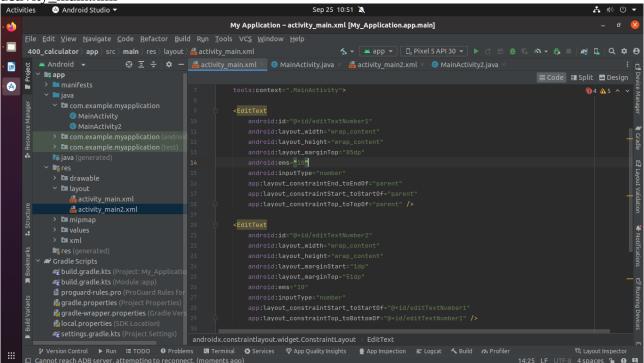
```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:app="http://schemas.android.com/apk/res-auto"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout height="match parent"
  tools:context=".MainActivity2">
  <TextView
    android:id="@+id/textViewResult"
    android:layout_width="196dp"
    android:layout_height="121dp"
    android:layout marginTop="299dp"
    android:text="TextView"
    android:textSize="34sp"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

# **Output Screenshot**

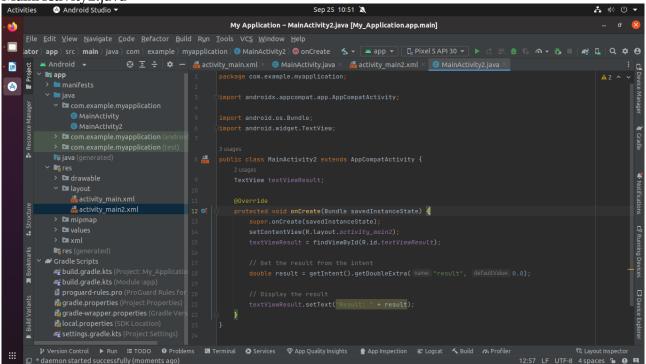
### activity\_main2.xml



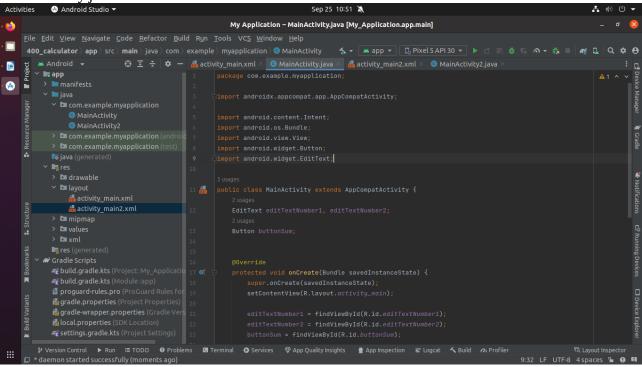
# activity\_main.xml



MainActivity2.java



MainActivity.java



MainActivity 2

