

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
    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"

```

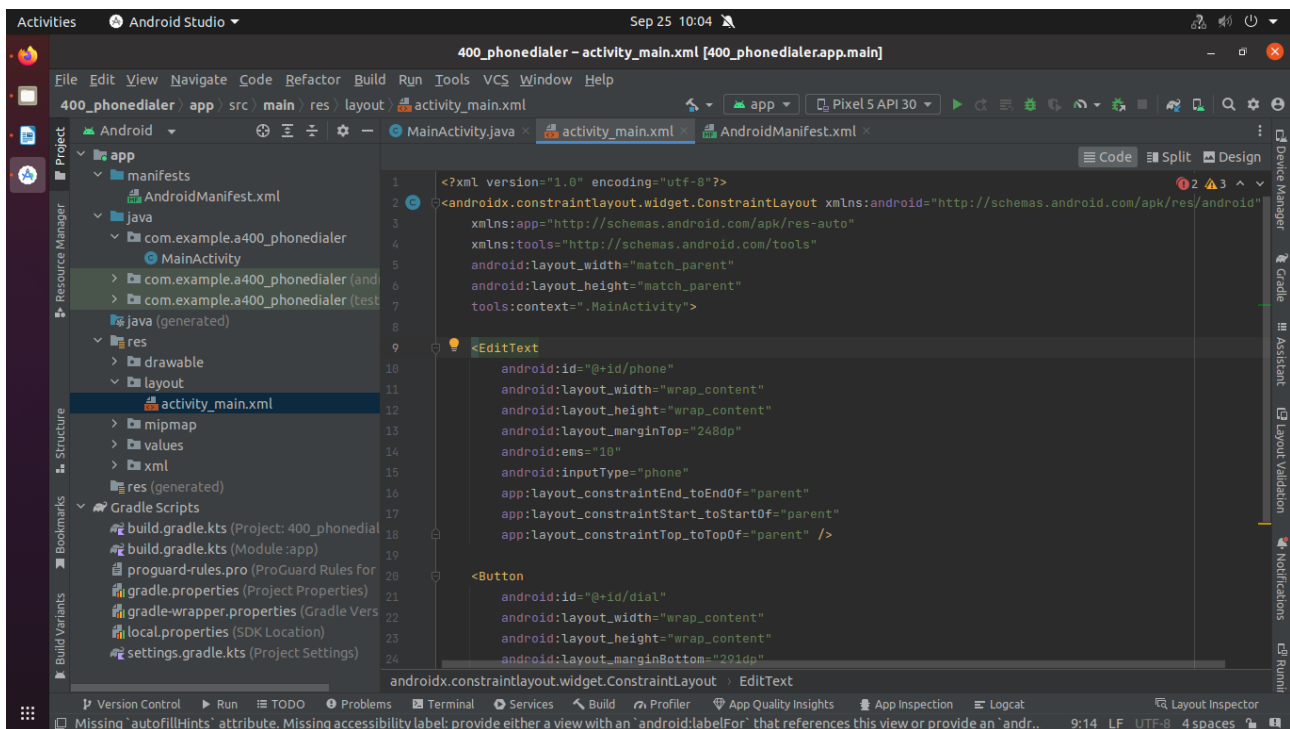
```

        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>

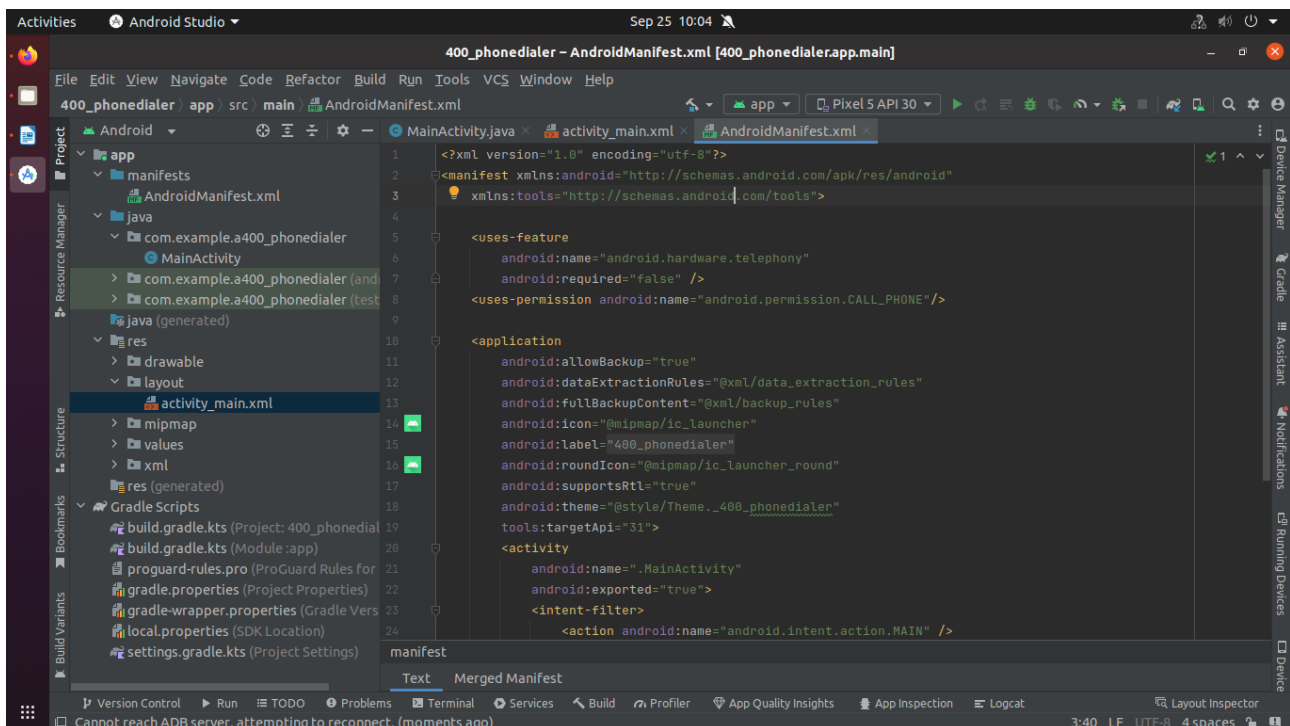
```

Output Screenshots:

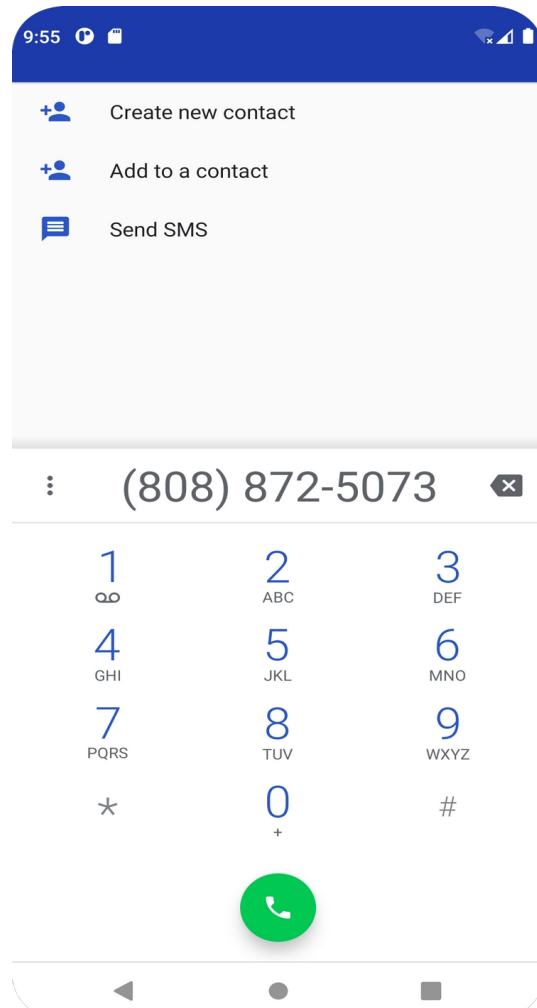
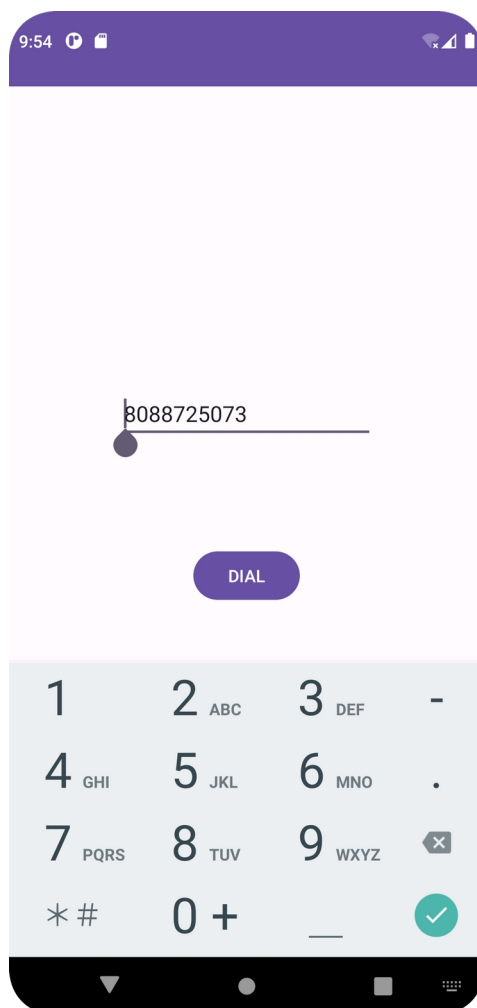
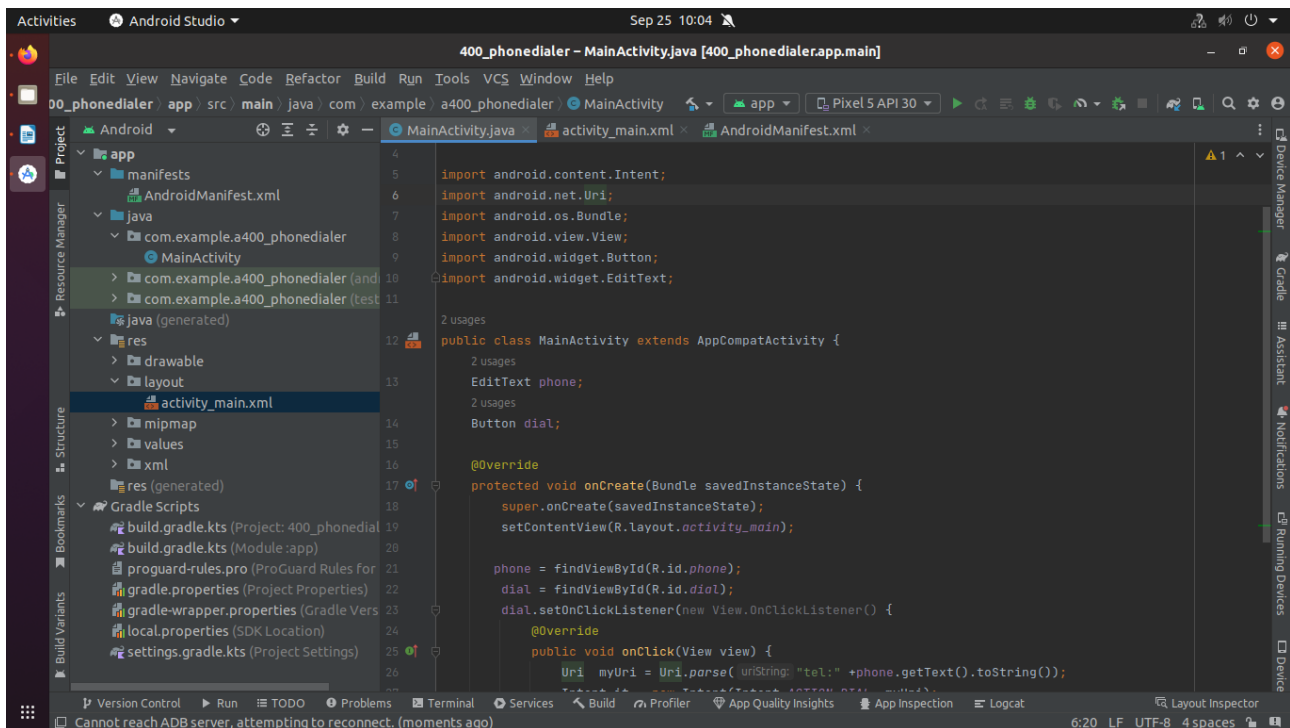
activity_main.xml

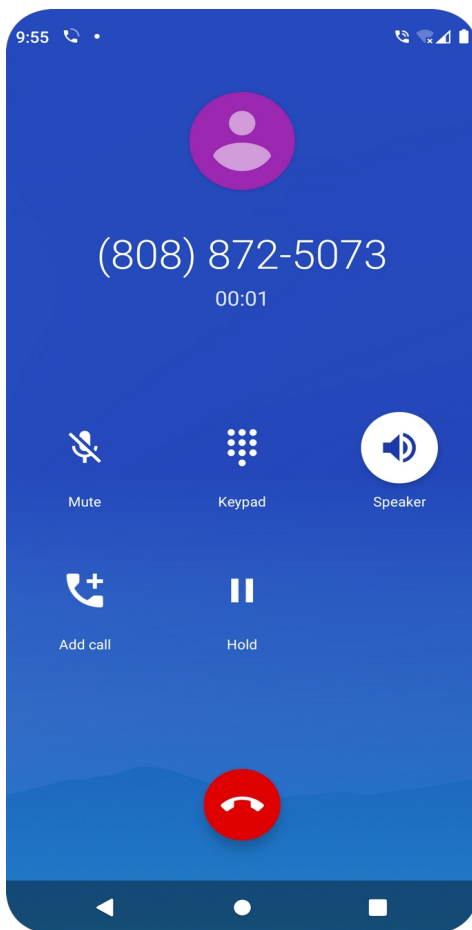


AndroidManifest.xml



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
    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

```

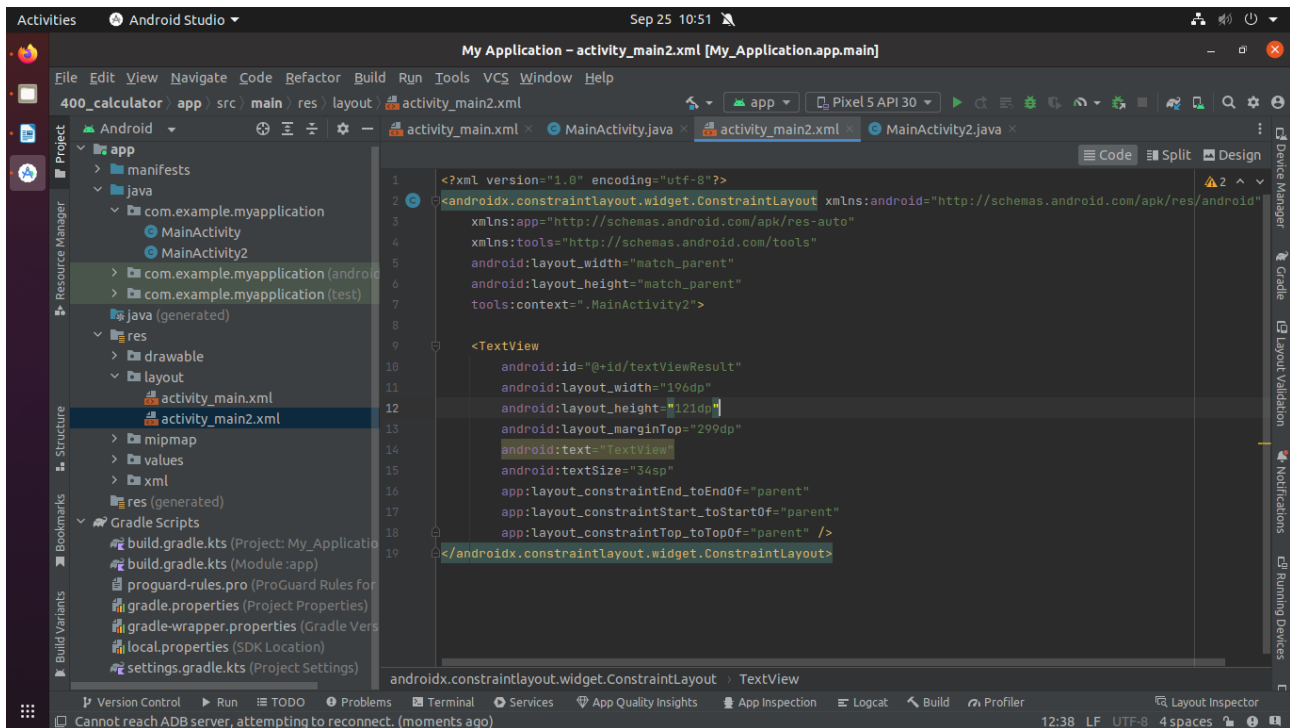
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    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>

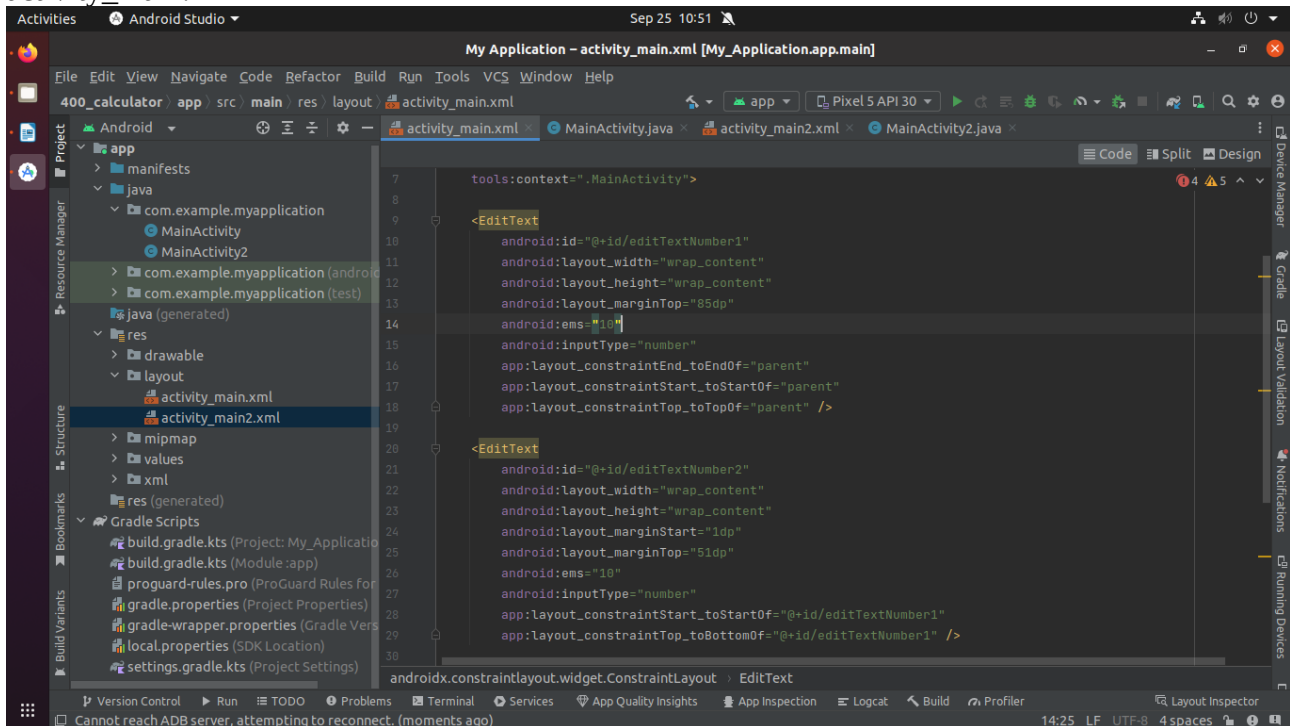
```


Output Screenshot

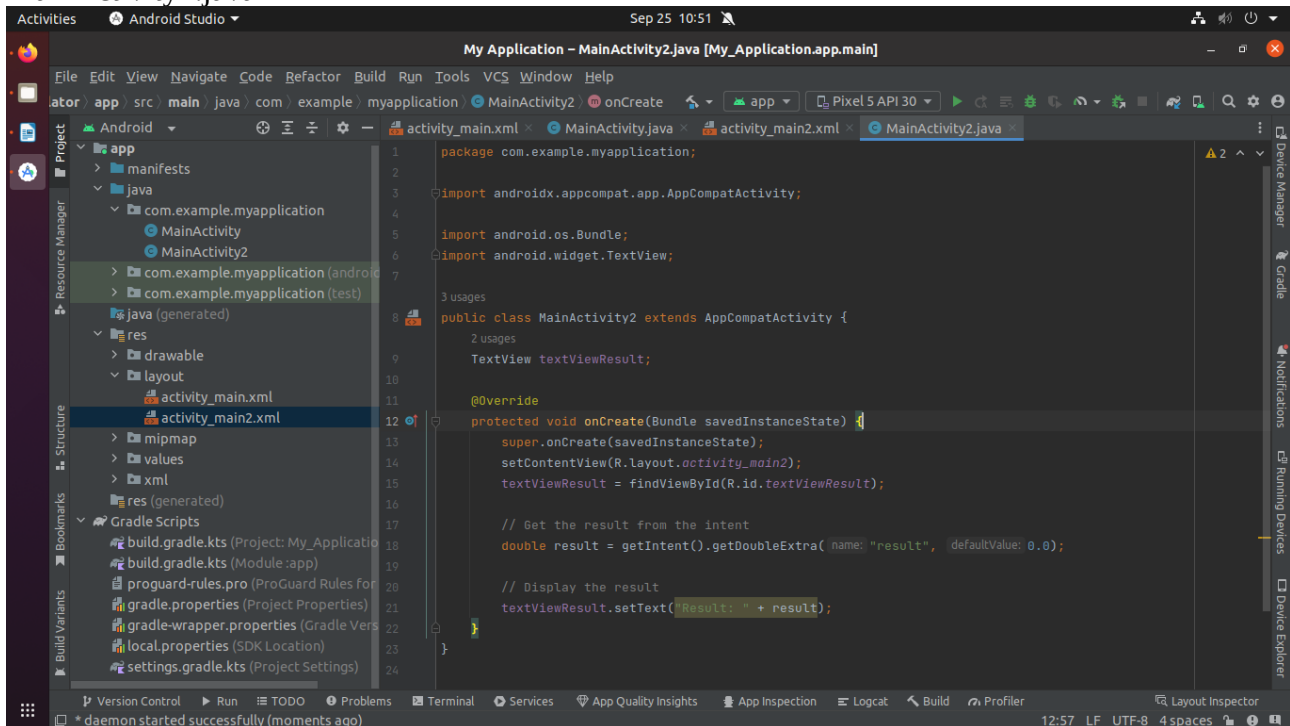
activity_main2.xml



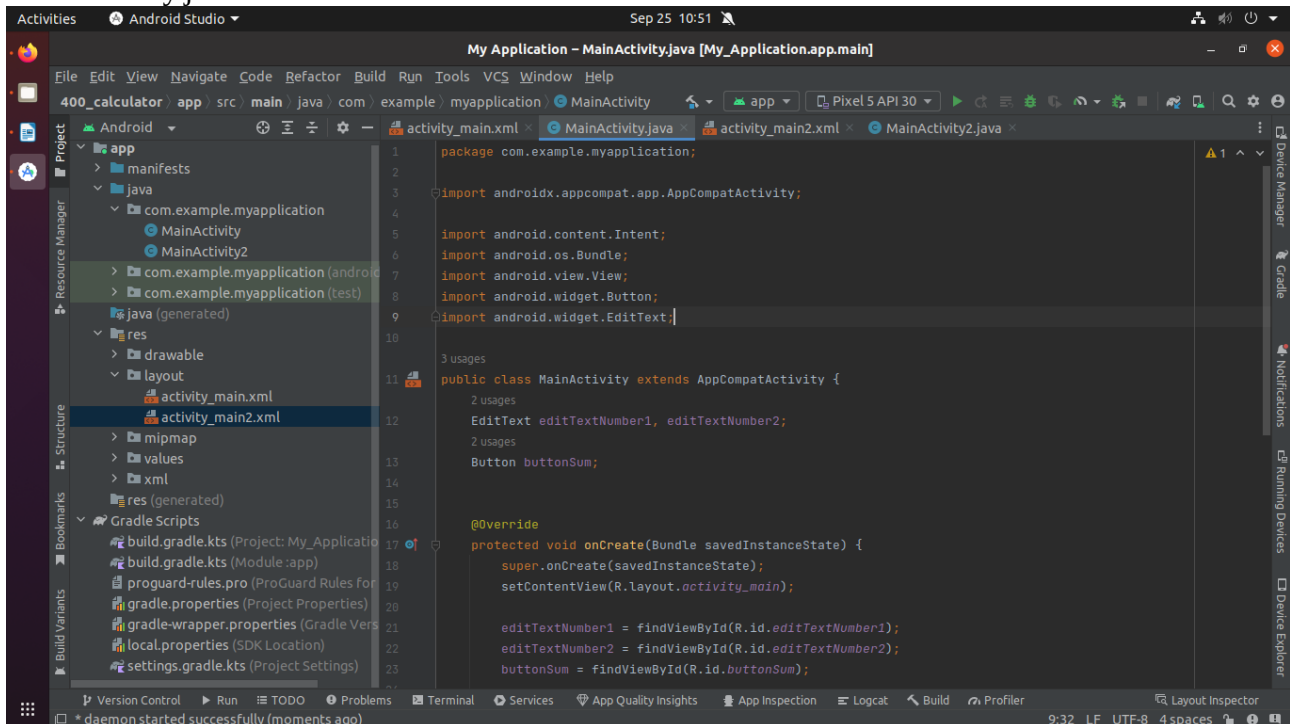
activity_main.xml



MainActivity2.java



MainActivity.java



MainActivity

10:46

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MainActivity 2

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Result: 11.0