# PART - A LAB - 08 PHONE APP

# 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=".MainActivity">
 <TextView
   android:layout width="wrap content"
   android:layout height="wrap content"
   android:layout alignParentEnd="true"
   android:layout_alignParentBottom="true"
   android:layout marginEnd="32dp"
   android:layout_marginBottom="532dp"
   android:text="Call and Save Application"
   android:textColor="@color/black"
   android:textSize="25sp"
   app:layout_constraintBottom_toBottomOf="parent"
   app:layout constraintEnd toEndOf="parent"
   app:layout constraintHorizontal bias="0.5"
   app:layout_constraintStart_toStartOf="parent"
   app:layout constraintTop toTopOf="parent"
   app:layout constraintVertical bias="0.107" />
 <Button
   android:id="@+id/delbtn"
   android:layout_width="wrap_content"
   android:layout_height="wrap content"
   android:layout_alignParentEnd="true"
   android:layout alignParentBottom="true"
   android:layout marginEnd="33dp"
   android:layout_marginBottom="443dp"
   android:onClick="del"
   android:text="DEL" />
 <EditText
   android:id="@+id/phNum"
   android:layout width="wrap content"
   android:layout_height="wrap_content"
   android:layout alignParentEnd="true"
   android:layout alignParentBottom="true"
   android:layout_marginEnd="161dp"
   android:layout marginBottom="445dp"
```

android:ems="10"

```
android:hint="Enter number to call or save"
android:inputType="textPersonName" />
```

## <Button

android:id="@+id/button1"
android:layout\_width="wrap\_content"
android:layout\_height="wrap\_content"
android:layout\_alignParentEnd="true"
android:layout\_alignParentBottom="true"
android:layout\_marginEnd="273dp"
android:layout\_marginBottom="351dp"
android:onClick="one"
android:text="1" />

# <Button

android:id="@+id/button2"
android:layout\_width="wrap\_content"
android:layout\_height="wrap\_content"
android:layout\_alignParentEnd="true"
android:layout\_alignParentBottom="true"
android:layout\_marginEnd="156dp"
android:layout\_marginBottom="351dp"
android:onClick="two"
android:text="2" />

## <Button

android:id="@+id/button3"
android:layout\_width="wrap\_content"
android:layout\_height="wrap\_content"
android:layout\_alignParentEnd="true"
android:layout\_alignParentBottom="true"
android:layout\_marginEnd="34dp"
android:layout\_marginBottom="350dp"
android:onClick="three"
android:text="3" />

## <Button

android:id="@+id/button4"
android:layout\_width="wrap\_content"
android:layout\_height="wrap\_content"
android:layout\_alignParentEnd="true"
android:layout\_alignParentBottom="true"
android:layout\_marginEnd="273dp"
android:layout\_marginBottom="278dp"
android:onClick="four"
android:text="4" />

## <Button

android:id="@+id/button5" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_alignParentEnd="true"

```
android:layout_alignParentBottom="true"
android:layout_marginEnd="155dp"
android:layout_marginBottom="279dp"
android:onClick="five"
android:text="5" />
```

#### <Button

android:id="@+id/button6"
android:layout\_width="wrap\_content"
android:layout\_height="wrap\_content"
android:layout\_alignParentEnd="true"
android:layout\_alignParentBottom="true"
android:layout\_marginEnd="34dp"
android:layout\_marginBottom="278dp"
android:onClick="six"
android:text="6" />

#### <Button

android:id="@+id/button7"
android:layout\_width="wrap\_content"
android:layout\_height="wrap\_content"
android:layout\_alignParentEnd="true"
android:layout\_alignParentBottom="true"
android:layout\_marginEnd="274dp"
android:layout\_marginBottom="210dp"
android:onClick="seven"
android:text="7" />

## <Button

android:id="@+id/button8"
android:layout\_width="wrap\_content"
android:layout\_height="wrap\_content"
android:layout\_alignParentEnd="true"
android:layout\_alignParentBottom="true"
android:layout\_marginEnd="155dp"
android:layout\_marginBottom="210dp"
android:onClick="eight"
android:text="8" />

## <Button

android:id="@+id/button9"
android:layout\_width="wrap\_content"
android:layout\_height="wrap\_content"
android:layout\_alignParentEnd="true"
android:layout\_alignParentBottom="true"
android:layout\_marginEnd="34dp"
android:layout\_marginBottom="210dp"
android:onClick="nine"
android:text="9" />

## <Button

android:id="@+id/buttonCall"

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_alignParentEnd="true" android:layout\_alignParentBottom="true" android:layout\_marginEnd="222dp" android:layout\_marginBottom="72dp" android:onClick="call" android:text="Call" />

## <Button

android:id="@+id/buttonSave"
android:layout\_width="wrap\_content"
android:layout\_height="wrap\_content"
android:layout\_alignParentEnd="true"
android:layout\_alignParentBottom="true"
android:layout\_marginEnd="92dp"
android:layout\_marginBottom="71dp"
android:onClick="save"
android:text="SAVE" />

## <Button

android:id="@+id/buttonHash" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_alignParentEnd="true" android:layout\_alignParentBottom="true" android:layout\_marginEnd="33dp" android:layout\_marginBottom="143dp" android:onClick="hash" android:text="#" />

## <Button

android:id="@+id/buttonPlus"
android:layout\_width="wrap\_content"
android:layout\_height="wrap\_content"
android:layout\_alignParentEnd="true"
android:layout\_alignParentBottom="true"
android:layout\_marginEnd="273dp"
android:layout\_marginBottom="142dp"
android:onClick="plus"
android:text="+" />

## <Button

android:id="@+id/button0"
android:layout\_width="wrap\_content"
android:layout\_height="wrap\_content"
android:layout\_alignParentEnd="true"
android:layout\_alignParentBottom="true"
android:layout\_marginEnd="156dp"
android:layout\_marginBottom="142dp"
android:onClick="zero"
android:text="0" />

# MainActivity.java

```
package com.phoneapp;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.provider.ContactsContract;
import android.view.View;
import android.widget.EditText;
public class MainActivity extends AppCompatActivity {
 EditText number;
 @Override
 protected void onCreate(Bundle savedInstanceState) {
   super.onCreate(savedInstanceState);
   setContentView(R.layout.activity_main);
   number = findViewById(R.id.phNum);
 }
 public void del(View view) {
   String numdel = number.getText().toString();
   numdel = numdel.substring(0, numdel.length()-1);
   number.setText(numdel);
 }
 public void one(View view) {
   number.append("1");
 }
 public void two(View view) {
   number.append("2");
 }
 public void three(View view) {
   number.append("3");
 }
 public void four(View view) {
   number.append("4");
 }
 public void five(View view) {
```

```
number.append("5");
 }
 public void six(View view) {
   number.append("6");
 }
 public void seven(View view) {
   number.append("7");
 }
 public void eight(View view) {
   number.append("8");
 }
 public void call(View view) {
   String myNumber = number.getText().toString();
   Intent it = new Intent(Intent.ACTION_DIAL, Uri.parse("tel:"+myNumber));
   startActivity(it);
 }
 public void nine(View view) {
   number.append("9");
 }
 public void save(View view) {
   String myNum = number.getText().toString();
   Intent it = new Intent(Intent.ACTION_INSERT, ContactsContract.Contacts.CONTENT_URI);
   it.putExtra(ContactsContract.Intents.Insert.PHONE, myNum);
   startActivity(it);
 }
 public void hash(View view) {
   number.append("#");
 }
 public void plus(View view) {
   number.append("+");
 }
 public void zero(View view) {
   number.append("0");
 }
}
```