

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" />
```

</RelativeLayout>

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");
}
}
```