LAB 8: XML CODES

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
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"
    android:orientation="vertical"
    tools:context=".MainActivity">


    <TextView
        android:id="@+id/textView"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="CALL AND SAVE APPLICATION"
        android:textSize="25dp"
        android:textAlignment="center"
        android:textStyle="bold"
        android:textColor="@color/black"/>

    <LinearLayout
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:orientation="horizontal"
        android:layout_gravity="center">

        <EditText
            android:id="@+id/edtNumber"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:ems="10"
            android:hint="Enter a no to call or save"
            android:inputType="textPersonName" />

        <Button
            android:id="@+id/delete"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:onClick="delete"
            android:text="DEL" />
    </LinearLayout>

    <LinearLayout
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:orientation="horizontal">
```

```xml
    <Button
        android:id="@+id/btnOne"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="1"
        android:onClick="one"/>

    <Button
        android:id="@+id/btnTwo"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="2"
        android:onClick="two"/>

    <Button
        android:id="@+id/btnThree"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="3"
        android:onClick="three"/>
</LinearLayout>

<LinearLayout
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center"
    android:orientation="horizontal">

    <Button
        android:id="@+id/btnFour"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="4"
        android:onClick="four"/>

    <Button
        android:id="@+id/btnFive"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="5"
        android:onClick="five"/>

    <Button
        android:id="@+id/btnSix"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="6"
        android:onClick="six"/>
</LinearLayout>

<LinearLayout
    android:layout_width="wrap_content"
```

```xml
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:orientation="horizontal">

        <Button
            android:id="@+id/btnSeven"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="7"
            android:onClick="seven"/>

        <Button
            android:id="@+id/btnEight"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="8"
            android:onClick="eight"/>

        <Button
            android:id="@+id/btnNine"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="9"
            android:onClick="nine"/>
    </LinearLayout>

    <LinearLayout
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:orientation="horizontal">

        <Button
            android:id="@+id/btnStar"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="*"
            android:onClick="star"/>

        <Button
            android:id="@+id/btnZero"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="0"
            android:onClick="zero"/>

        <Button
            android:id="@+id/btnHash"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="#"
            android:onClick="hash"/>
    </LinearLayout>
```

```xml
    <LinearLayout
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:orientation="horizontal">

        <Button
            android:id="@+id/btnCall"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="CALL"
            android:onClick="call"/>

        <Button
            android:id="@+id/btnSave"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="SAVE"
            android:onClick="save"/>
    </LinearLayout>

</LinearLayout>
```
**************************************End Of XML CODE************************************


```java
package com.example.l8;

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

        num = findViewById(R.id.edtNumber);
    }

    public void delete(View view) {
        String mynum = num.getText().toString();
         mynum = mynum.substring(0,mynum.length()-1);
         num.setText(mynum);
```

```java
    }

    public void one(View view) {
        num.append("1");
    }

    public void two(View view) {
        num.append("2");
    }

    public void three(View view) {
        num.append("3");
    }

    public void four(View view) {
        num.append("4");
    }

    public void five(View view) {
        num.append("5");
    }

    public void six(View view) {
        num.append("6");
    }

    public void seven(View view) {
        num.append("7");
    }

    public void eight(View view) {
        num.append("8");
    }

    public void nine(View view) {
        num.append("9");
    }

    public void star(View view) {
        num.append("*");
    }

    public void zero(View view) {
        num.append("0");
    }

    public void hash(View view) {
        num.append("#");
    }
```

```java
    public void call(View view) {
        String mynum = num.getText().toString();
//First read the number using getText
        Intent it = new Intent(Intent.ACTION_DIAL,
Uri.parse("tel:"+mynum)); //Use Intent and Parse the num using
Uri.parse() method
        startActivity(it);//Start the activity
    }

    public void save(View view) {
        String mynum = num.getText().toString();
         Intent it = new Intent(Intent.ACTION_INSERT,
ContactsContract.Contacts.CONTENT_URI);//Do a study on this
first, starts the action to Insert
        it.putExtra(ContactsContract.Intents.Insert.PHONE, mynum);
//Sounds like SQL & Plain English statements: INSERTS the Data
        startActivity(it);//Finally start the intent
    }
}
```