***LAB 8: XML CODES***

*<?*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">  
  
 <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"  
 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>  
  
 <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\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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);**  
 }  
  
 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("#");**  
 }  
  
 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* }  
}