Create an activity like a phone dialer withCALLand SAVE buttons. On pressing the CALL button, it must call the phone number and on pressing the SAVE button it must save the number to the phone contacts.

Xml code:

*<?*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">  
  
  
 <Button  
 android:id="@+id/buttonsave"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="368dp"  
 android:text="SAVE"  
 app:layout\_constraintEnd\_toStartOf="@+id/button2"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/display" />  
  
 <Button  
 android:id="@+id/remove"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="368dp"  
 android:text="x"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.507"  
 app:layout\_constraintStart\_toEndOf="@+id/button2"  
 app:layout\_constraintTop\_toBottomOf="@+id/display" />  
  
 <Button  
 android:id="@+id/buttoncall"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="368dp"  
 android:text="CALL"  
 app:layout\_constraintEnd\_toStartOf="@+id/button3"  
 app:layout\_constraintHorizontal\_bias="0.492"  
 app:layout\_constraintStart\_toEndOf="@+id/button1"  
 app:layout\_constraintTop\_toBottomOf="@+id/display" />  
  
 <Button  
 android:id="@+id/buttonstar"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="300dp"  
 android:text="\*"  
 app:layout\_constraintEnd\_toStartOf="@+id/button2"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/display" />  
  
 <Button  
 android:id="@+id/buttonhash"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="300dp"  
 android:text="#"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.507"  
 app:layout\_constraintStart\_toEndOf="@+id/button2"  
 app:layout\_constraintTop\_toBottomOf="@+id/display" />  
  
 <Button  
 android:id="@+id/button0"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="300dp"  
 android:text="0"  
 app:layout\_constraintEnd\_toStartOf="@+id/button3"  
 app:layout\_constraintHorizontal\_bias="0.492"  
 app:layout\_constraintStart\_toEndOf="@+id/button1"  
 app:layout\_constraintTop\_toBottomOf="@+id/display" />  
  
 <Button  
 android:id="@+id/button7"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="232dp"  
 android:text="7"  
 app:layout\_constraintEnd\_toStartOf="@+id/button2"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/display" />  
  
 <Button  
 android:id="@+id/button9"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="232dp"  
 android:text="9"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.507"  
 app:layout\_constraintStart\_toEndOf="@+id/button2"  
 app:layout\_constraintTop\_toBottomOf="@+id/display" />  
  
 <Button  
 android:id="@+id/button8"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="232dp"  
 android:text="8"  
 app:layout\_constraintEnd\_toStartOf="@+id/button3"  
 app:layout\_constraintHorizontal\_bias="0.492"  
 app:layout\_constraintStart\_toEndOf="@+id/button1"  
 app:layout\_constraintTop\_toBottomOf="@+id/display" />  
  
 <EditText  
 android:id="@+id/display"  
 android:layout\_width="260dp"  
 android:layout\_height="62dp"  
 android:ems="10"  
 android:inputType="phone"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.496"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.221"  
 tools:ignore="SpeakableTextPresentCheck" />  
  
 <Button  
 android:id="@+id/button1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="88dp"  
 android:text="1"  
 app:layout\_constraintEnd\_toStartOf="@+id/button2"  
 app:layout\_constraintHorizontal\_bias="0.5"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/display" />  
  
 <Button  
 android:id="@+id/button2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="88dp"  
 android:text="2"  
 app:layout\_constraintEnd\_toStartOf="@+id/button3"  
 app:layout\_constraintHorizontal\_bias="0.5"  
 app:layout\_constraintStart\_toEndOf="@+id/button1"  
 app:layout\_constraintTop\_toBottomOf="@+id/display" />  
  
 <Button  
 android:id="@+id/button3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="88dp"  
 android:text="3"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.5"  
 app:layout\_constraintStart\_toEndOf="@+id/button2"  
 app:layout\_constraintTop\_toBottomOf="@+id/display" />  
  
 <Button  
 android:id="@+id/button4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="158dp"  
 android:text="4"  
 app:layout\_constraintEnd\_toStartOf="@+id/button5"  
 app:layout\_constraintHorizontal\_bias="0.5"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/display" />  
  
 <Button  
 android:id="@+id/button6"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="158dp"  
 android:text="6"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.5"  
 app:layout\_constraintStart\_toEndOf="@+id/button5"  
 app:layout\_constraintTop\_toBottomOf="@+id/display" />  
  
 <Button  
 android:id="@+id/button5"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="158dp"  
 android:text="5"  
 app:layout\_constraintEnd\_toStartOf="@+id/button6"  
 app:layout\_constraintHorizontal\_bias="0.5"  
 app:layout\_constraintStart\_toEndOf="@+id/button4"  
 app:layout\_constraintTop\_toBottomOf="@+id/display" />  
  
 <TextView  
 android:id="@+id/textView"  
 android:layout\_width="304dp"  
 android:layout\_height="62dp"  
 android:layout\_marginBottom="48dp"  
 android:text="Call and Save "  
 android:textSize="30dp"  
 app:layout\_constraintBottom\_toTopOf="@+id/display"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

Java code:

package com.example.e8;  
  
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.Button;  
import android.widget.EditText;  
  
public class MainActivity extends AppCompatActivity {  
 EditText display;  
 Button btn1,btn2,btn3,btn4,btn5,btn6,btn7,btn8,btn9,btn0,btnstar,btnhash,btnsave,btnremove,btncall;  
  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 btn1=(Button) findViewById(R.id.*button1*);  
 btn2=(Button) findViewById(R.id.*button2*);  
 btn3=(Button) findViewById(R.id.*button3*);  
 btn4=(Button) findViewById(R.id.*button4*);  
 btn5=(Button) findViewById(R.id.*button5*);  
 btn6=(Button) findViewById(R.id.*button6*);  
 btn7=(Button) findViewById(R.id.*button7*);  
 btn8=(Button) findViewById(R.id.*button8*);  
 btn9=(Button) findViewById(R.id.*button9*);  
 btn0=(Button) findViewById(R.id.*button0*);  
  
 btncall=(Button) findViewById(R.id.*buttoncall*);  
 btnsave=(Button) findViewById(R.id.*buttonsave*);  
 btnremove=(Button) findViewById(R.id.*remove*);  
 btnstar=(Button) findViewById(R.id.*buttonstar*);  
 btnhash=(Button) findViewById(R.id.*buttonhash*);  
  
 display=(EditText) findViewById(R.id.*display*);  
  
 btn0.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 display.append("0");  
 }  
 });  
  
 btn1.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 display.append("1");  
 }  
 });  
  
 btn2.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 display.append("2");  
 }  
 });  
  
 btn3.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 display.append("3");  
 }  
 });  
  
 btn4.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 display.append("4");  
 }  
 });  
  
 btn5.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 display.append("5");  
 }  
 });  
  
 btn6.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 display.append("6");  
 }  
 });  
  
 btn7.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 display.append("7");  
 }  
 });  
  
 btn8.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 display.append("8");  
 }  
 });  
  
 btn9.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 display.append("9");  
 }  
 });  
  
 btnstar.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 display.append("\*");  
 }  
 });  
  
 btnhash.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 display.append("#");  
 }  
 });  
  
 btncall.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 String data = display.getText().toString();  
 Intent intent = new Intent(Intent.*ACTION\_DIAL*);  
 intent.setData(Uri.*parse*("tel:"+data));  
 startActivity(intent);  
 }  
 });  
 btnsave.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 String data = display.getText().toString();  
 Intent intent = new Intent(ContactsContract.Intents.Insert.*ACTION*);  
 intent.setType(ContactsContract.RawContacts.*CONTENT\_TYPE*);  
 intent.putExtra(ContactsContract.Intents.Insert.*NAME*,"Unknown");  
 intent.putExtra(ContactsContract.Intents.Insert.*PHONE*,data);  
 startActivity(intent);  
 }  
 });  
  
 btnremove.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 String data = display.getText().toString();  
  
 if (data.length() > 0) {  
  
 String val = data.substring(0, data.length() - 1);  
 display.setText(val);  
 } else {  
 display.setText("");  
 }  
 }  
 });  
  
  
 }  
}