8 Create an activity like a phone dialer with CALL and 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 Part– activity_main.xml

```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"
 android:layout_marginTop="150dp"
 tools:context=".MainActivity">
 <TextView
 android:layout_width="match_parent"
 android:layout_height="wrap_content"
 android:text="CALL and SAVE APPLICATION"
 android:textSize="30sp"
 android:textAlignment="center"

 android:textColor="@color/design_default_color_primary_dark"
 />
 <LinearLayout
 android:layout_width="match_parent"
 android:layout_height="wrap_content"
 android:orientation="horizontal">
 <EditText
 android:layout_width="300dp"
 android:layout_height="wrap_content"
 android:id="@+id/num"
 android:hint="Enter Number To Dial/SAVE"
 android:textAlignment="center"
android:textSize="20sp"
 android:textColor="@color/design_default_color_error"/>
 <Button
 android:layout_width="100dp"
 android:layout_height="wrap_content"
 android:id="@+id/del"
 android:text="DEL"
 android:textAlignment="center"
 android:onClick="delete"/>
 </LinearLayout>
 <LinearLayout
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 android:layout_gravity="center"
 android:orientation="horizontal">
 <Button

 android:id="@+id/three"
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 android:onClick="three"
 android:text="3" />
 <Button
 android:id="@+id/one"
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 android:onClick="one"
 android:text="1" />
 <Button
 android:id="@+id/two"
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 android:onClick="two"
 android:text="2" />
 </LinearLayout>
 <LinearLayout
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 android:orientation="horizontal"
 android:layout_gravity="center">
 <Button
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 android:id="@+id/four"
 android:text="4"
 android:onClick="four"/>
 <Button
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 android:id="@+id/five"
 android:text="5"
 android:onClick="five"/>
 <Button
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 android:id="@+id/six"
 android:text="6"
 android:onClick="six"/>
 </LinearLayout>
 <LinearLayout
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 android:orientation="horizontal"
 android:layout_gravity="center">
 <Button
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 android:id="@+id/seven"
 android:text="7"
 android:onClick="seven"/>
 <Button
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
```

```xml
        android:id="@+id/eight"
        android:text="8"
        android:onClick="eight"/>
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/nine"
        android:text="9"
        android:onClick="nine"/>
    </LinearLayout>
    <LinearLayout
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:orientation="horizontal"
        android:layout_gravity="center">
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/star"
        android:text="*"
        android:onClick="star"/>
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/zero"
        android:text="0"
        android:onClick="zero"/>
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/hash"
        android:text="#"
        android:onClick="hash"/>
    </LinearLayout>
    <LinearLayout
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:orientation="horizontal"
        android:layout_gravity="center">
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/call"
        android:text="CALL"
        android:onClick="call"/>
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/save"
        android:text="SAVE"
        android:onClick="save"/>
    </LinearLayout>
</LinearLayout>
```

Java Code – MainActivity.java

```java
package com.example.l8;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.os.VibrationEffect;
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.num);
 }
 public void one(View v)
 {
 number.append("1");
 }
 public void two(View v)
 {
 number.append("2");
 }
 public void three(View v)
 {
 number.append("3");
 }
 public void four(View v)
 {
 number.append("4");
 }
 public void five(View v)
 {
 number.append("5");
 }
 public void six(View v)
 {
 number.append("6");
 }
 public void seven(View v)
 {
 number.append("7");
 }
 public void eight(View v)
 {
 number.append("8");
 }
 public void nine(View v)
 {
 number.append("9");
 }
 public void zero(View v)
```

```java
{
number.append("0");
}
public void star(View v)
{
number.append("*");
}
public void hash(View v)
{
number.append("#");
}
public void delete(View v)
{
String n=number.getText().toString();
n=n.substring(0,n.length()-1);
number.setText(n);
}
public void call(View v)
{
String num=number.getText().toString();
Intent i =new Intent(Intent.ACTION_DIAL,
Uri.parse("tel:"+num));
//Intent i =new
Intent(Intent.ACTION_VIEW,Uri.parse(num));
startActivity(i);
}
public void save(View v)
{
String num=number.getText().toString();
Intent i =new Intent(Intent.ACTION_INSERT,
ContactsContract.Contacts.CONTENT_URI);
i.putExtra(ContactsContract.Intents.Insert.PHONE,num);
startActivity(i);
}
}
```