**activity\_main.xml**

*<?***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"**>  
  
 <**TextView  
 android:id="@+id/textView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="50dp"  
 android:text="PHONEDAILER"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"**/>  
 <**EditText  
 android:id="@+id/txt\_phonenumber"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="20dp"  
 android:layout\_marginTop="30dp"  
 android:ems="10"  
 android:inputType="textPersonName"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/textView"**/>  
 <**Button  
 android:id="@+id/btn\_delete"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="20dp"  
 android:layout\_marginTop="30dp"  
 android:text="Delete"  
 app:layout\_constraintStart\_toEndOf="@+id/txt\_phonenumber"  
 app:layout\_constraintTop\_toBottomOf="@+id/textView"**/>  
 <**Button  
 android:id="@+id/btn\_one"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="20dp"  
 android:layout\_marginTop="30dp"  
 android:text="1"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/txt\_phonenumber"**/>  
 <**Button  
 android:id="@+id/btn\_two"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="30dp"  
 android:text="2"  
 app:layout\_constraintEnd\_toStartOf="@+id/btn\_three"  
 app:layout\_constraintStart\_toEndOf="@+id/btn\_one"  
 app:layout\_constraintTop\_toBottomOf="@+id/txt\_phonenumber"**/>  
 <**Button  
 android:id="@+id/btn\_three"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="30dp"  
 android:layout\_marginEnd="20dp"  
 android:text="3"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/txt\_phonenumber"**/>  
 <**Button  
 android:id="@+id/btn\_four"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="20dp"  
 android:layout\_marginTop="30dp"  
 android:text="4"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/btn\_one"**/>  
 <**Button  
 android:id="@+id/btn\_five"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="30dp"  
 android:text="5"  
 app:layout\_constraintEnd\_toStartOf="@+id/btn\_six"  
 app:layout\_constraintStart\_toEndOf="@+id/btn\_four"  
 app:layout\_constraintTop\_toBottomOf="@+id/btn\_two"**/>  
 <**Button  
 android:id="@+id/btn\_six"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="30dp"  
 android:layout\_marginEnd="20dp"  
 android:text="6"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/btn\_three"**/>  
 <**Button  
 android:id="@+id/btn\_seven"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="20dp"  
 android:layout\_marginTop="30dp"  
 android:text="7"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/btn\_four"**/>  
 <**Button  
 android:id="@+id/btn\_eight"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="30dp"  
 android:text="8"  
 app:layout\_constraintEnd\_toStartOf="@+id/btn\_nine"  
 app:layout\_constraintStart\_toEndOf="@+id/btn\_seven"  
 app:layout\_constraintTop\_toBottomOf="@+id/btn\_five"**/>  
 <**Button  
 android:id="@+id/btn\_nine"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="30dp"  
 android:layout\_marginEnd="20dp"  
 android:text="9"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/btn\_six"**/>  
 <**Button  
 android:id="@+id/btn\_zero"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="30dp"  
 android:text="0"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/btn\_eight"**/>  
 <**Button  
 android:id="@+id/btn\_call"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="20dp"  
 android:layout\_marginTop="30dp"  
 android:text="Call"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/btn\_zero"**/>  
 <**Button  
 android:id="@+id/btn\_save"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="30dp"  
 android:layout\_marginEnd="20dp"  
 android:text="Save"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/btn\_zero"**/>  
 <**Button  
 android:id="@+id/btn\_start"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="20dp"  
 android:layout\_marginTop="30dp"  
 android:text="\*"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/btn\_seven"**/>  
 <**Button  
 android:id="@+id/btn\_hash"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="30dp"  
 android:layout\_marginEnd="20dp"  
 android:text="#"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/btn\_nine"**/>  
  
</**androidx.constraintlayout.widget.ConstraintLayout**>

**MainActivity.java**

**package** com.example.myapplication;  
**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 **implements** View.OnClickListener{  
 Button **btnOne**,**btnTwo**,**btnThree**,**btnFour**,**btnFive**;  
 Button **btnSix**,**btnSeven**,**btnEight**,**btnNine**,**btnZero**;  
 Button **btnDel**,**btnStar**,**btnHash**,**btnCall**,**btnSave**;  
 EditText **txtPhonenumber**;  
 @Override **protected void** onCreate(Bundle savedInstanceState){  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
 **btnOne**=(Button)findViewById(R.id.***btn\_one***);  
 **btnOne**.setOnClickListener(**this**);  
 **btnTwo**=(Button)findViewById(R.id.***btn\_two***);  
 **btnTwo**.setOnClickListener(**this**);  
 **btnThree**=(Button)findViewById(R.id.***btn\_three***);  
 **btnThree**.setOnClickListener(**this**);  
 **btnFour**=(Button)findViewById(R.id.***btn\_four***);  
 **btnFour**.setOnClickListener(**this**);  
 **btnFive**=(Button)findViewById(R.id.***btn\_five***);  
 **btnFive**.setOnClickListener(**this**);  
 **btnSix**=(Button)findViewById(R.id.***btn\_six***);  
 **btnSix**.setOnClickListener(**this**);  
 **btnSeven**=(Button)findViewById(R.id.***btn\_seven***);  
 **btnSeven**.setOnClickListener(**this**);  
 **btnEight**=(Button)findViewById(R.id.***btn\_eight***);  
 **btnEight**.setOnClickListener(**this**);  
 **btnNine**=(Button)findViewById(R.id.***btn\_nine***);  
 **btnNine**.setOnClickListener(**this**);  
 **btnZero**=(Button)findViewById(R.id.***btn\_zero***);  
 **btnZero**.setOnClickListener(**this**);  
 **btnStar**=(Button)findViewById(R.id.***btn\_start***);  
 **btnStar**.setOnClickListener(**this**);  
 **btnHash**=(Button)findViewById(R.id.***btn\_hash***);  
 **btnHash**.setOnClickListener(**this**);  
 **btnCall**=(Button)findViewById(R.id.***btn\_call***);  
 **btnCall**.setOnClickListener(**this**);  
 **btnSave**=(Button)findViewById(R.id.***btn\_save***);  
 **btnSave**.setOnClickListener(**this**);  
 **btnDel**=(Button)findViewById(R.id.***btn\_delete***);  
 **btnDel**.setOnClickListener(**this**);  
 **txtPhonenumber**=(EditText)findViewById(R.id.***txt\_phonenumber***);  
 **txtPhonenumber**.setText(**""**);  
 }  
 **public void** onClick(View v)  
 {  
 **if**(v.equals(**btnOne**))  
 **txtPhonenumber**.append(**"1"**);  
 **else if**(v.equals(**btnTwo**))  
 **txtPhonenumber**.append(**"2"**);  
 **else if**(v.equals(**btnThree**))  
 **txtPhonenumber**.append(**"3"**);  
 **else if**(v.equals(**btnFour**))  
 **txtPhonenumber**.append(**"4"**);  
 **else if**(v.equals(**btnFive**))  
 **txtPhonenumber**.append(**"5"**);  
 **else if**(v.equals(**btnSix**))  
 **txtPhonenumber**.append(**"6"**);  
 **else if**(v.equals(**btnSeven**))  
 **txtPhonenumber**.append(**"7"**);  
 **else if**(v.equals(**btnEight**))  
 **txtPhonenumber**.append(**"8"**);  
 **else if**(v.equals(**btnNine**))  
 **txtPhonenumber**.append(**"9"**);  
 **else if**(v.equals(**btnZero**))  
 **txtPhonenumber**.append(**"0"**);  
 **else if**(v.equals(**btnStar**))  
 **txtPhonenumber**.append(**"\*"**);  
 **else if**(v.equals(**btnHash**))  
 **txtPhonenumber**.append(**"#"**);  
 **else if**(v.equals(**btnSave**))  
 {  
 Intent contactIntent=**new** Intent  
 (ContactsContract.Intents.Insert.***ACTION***);  
 contactIntent.setType  
 (ContactsContract.RawContacts.***CONTENT\_TYPE***);  
 contactIntent  
 .putExtra(ContactsContract.Intents.Insert.***NAME***,**"Unknown"**);  
 contactIntent.putExtra(ContactsContract.Intents.Insert.***PHONE***,  
 **txtPhonenumber**.getText().toString());  
 startActivity(contactIntent);  
 }  
 **else if**(v.equals(**btnDel**))  
 {  
 String data=**txtPhonenumber**.getText().toString();  
 **if**(data.length()>0)  
 {  
 **txtPhonenumber**.setText  
 (data.substring(0,data.length()-1));  
 }  
 **else** {  
 **txtPhonenumber**.setText(**""**);  
 }  
 }  
 **btnCall**.setOnClickListener(**new** View.OnClickListener()  
 {  
 @Override **public void** onClick(View v){  
 String data=**txtPhonenumber**.getText().toString();  
 Intent intent=**new** Intent(Intent.***ACTION\_DIAL***);  
 intent.setData(Uri.*parse*(**"tel:"**+data));  
 startActivity(intent);  
 }  
 }  
 );  
 }  
}

AndroidManifest.xml

*<?***xml version="1.0" encoding="utf-8"***?>*<**manifest xmlns:android="http://schemas.android.com/apk/res/android"  
 package="com.example.myapplication"**>  
 <**uses-permission android:name="android.permission.CALL\_PHONE"**/>  
 <**application  
 android:allowBackup="true"  
 android:icon="@mipmap/ic\_launcher"  
 android:label="@string/app\_name"  
 android:roundIcon="@mipmap/ic\_launcher\_round"  
 android:supportsRtl="true"  
 android:theme="@style/Theme.MyApplication"**>  
 <**activity android:name=".MainActivity"**>  
 <**intent-filter**>  
 <**action android:name="android.intent.action.MAIN"** />  
  
 <**category android:name="android.intent.category.LAUNCHER"** />  
 </**intent-filter**>  
 </**activity**>  
 </**application**>  
  
</**manifest**>