**Program-8:**

**XML file:**

**Main Activity (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"**>  
  
 <**LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical"**>  
  
 <**TextView  
 android:id="@+id/textView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_gravity="center"  
 android:text="CALL AND SAVE APPLICATION"  
 android:textSize="24sp"  
 android:textStyle="bold"** />  
  
 <**RelativeLayout  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal"**>  
  
  
 <**EditText  
 android:id="@+id/pno"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="40sp"  
 android:layout\_marginLeft="40sp"  
 android:layout\_marginTop="20sp"  
 android:ems="10"  
 android:gravity="center"  
 android:hint="Contact Number"  
 android:inputType="textPersonName"** />  
  
 <**EditText  
 android:id="@+id/pname"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@id/pno"  
 android:layout\_marginStart="40sp"  
 android:layout\_marginLeft="40sp"  
 android:ems="10"  
 android:hint="Contact Name"  
 android:inputType="textPersonName"** />  
  
 <**Button  
 android:id="@+id/button"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="10sp"  
 android:layout\_marginLeft="10sp"  
 android:layout\_marginTop="20sp"  
 android:layout\_toRightOf="@id/pno"  
 android:onClick="del"  
 android:text="DEL"** />  
  
 </**RelativeLayout**>  
  
 <**TableLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"**>  
  
 <**TableRow  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"**>  
  
 <**Button  
 android:id="@+id/btn1"  
 android:layout\_width="40sp"  
 android:layout\_height="wrap\_content"  
 android:layout\_column="0"  
 android:layout\_marginStart="40sp"  
 android:layout\_marginLeft="40sp"  
 android:onClick="number"  
 android:text="1"** />  
  
 <**Button  
 android:id="@+id/btn2"  
 android:layout\_width="40sp"  
 android:layout\_height="wrap\_content"  
 android:layout\_column="0"  
 android:layout\_marginStart="20sp"  
 android:layout\_marginLeft="20sp"  
 android:onClick="number"  
 android:text="2"** />  
  
  
 <**Button  
 android:id="@+id/btn3"  
 android:layout\_width="40sp"  
 android:layout\_height="wrap\_content"  
 android:layout\_column="0"  
 android:layout\_marginStart="20sp"  
 android:layout\_marginLeft="20sp"  
 android:onClick="number"  
 android:text="3"** />  
 </**TableRow**>  
  
 <**TableRow  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"**>  
  
 <**Button  
 android:id="@+id/btn4"  
 android:layout\_width="40sp"  
 android:layout\_height="wrap\_content"  
 android:layout\_column="0"  
 android:layout\_marginStart="40sp"  
 android:layout\_marginLeft="40sp"  
 android:onClick="number"  
 android:text="4"** />  
  
 <**Button  
 android:id="@+id/btn5"  
 android:layout\_width="40sp"  
 android:layout\_height="wrap\_content"  
 android:layout\_column="0"  
 android:layout\_marginStart="20sp"  
 android:layout\_marginLeft="20sp"  
 android:onClick="number"  
 android:text="5"** />  
  
  
 <**Button  
 android:id="@+id/btn6"  
 android:layout\_width="40sp"  
 android:layout\_height="wrap\_content"  
 android:layout\_column="0"  
 android:layout\_marginStart="20sp"  
 android:layout\_marginLeft="20sp"  
 android:onClick="number"  
 android:text="6"** />  
 </**TableRow**>  
  
 <**TableRow  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"**>  
  
 <**Button  
 android:id="@+id/btn7"  
 android:layout\_width="40sp"  
 android:layout\_height="wrap\_content"  
 android:layout\_column="0"  
 android:layout\_marginStart="40sp"  
 android:layout\_marginLeft="40sp"  
 android:onClick="number"  
 android:text="7"** />  
  
 <**Button  
 android:id="@+id/btn8"  
 android:layout\_width="40sp"  
 android:layout\_height="wrap\_content"  
 android:layout\_column="0"  
 android:layout\_marginStart="20sp"  
 android:layout\_marginLeft="20sp"  
 android:onClick="number"  
 android:text="8"** />  
  
  
 <**Button  
 android:id="@+id/btn9"  
 android:layout\_width="40sp"  
 android:layout\_height="wrap\_content"  
 android:layout\_column="0"  
 android:layout\_marginStart="20sp"  
 android:layout\_marginLeft="20sp"  
 android:onClick="number"  
 android:text="9"** />  
 </**TableRow**>  
  
 <**TableRow  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"**>  
  
 <**Button  
 android:id="@+id/btnS"  
 android:layout\_width="40sp"  
 android:layout\_height="wrap\_content"  
 android:layout\_column="0"  
 android:layout\_marginStart="40sp"  
 android:layout\_marginLeft="40sp"  
 android:text="\*"** />  
  
 <**Button  
 android:id="@+id/btn0"  
 android:layout\_width="40sp"  
 android:layout\_height="wrap\_content"  
 android:layout\_column="0"  
 android:layout\_marginStart="20sp"  
 android:layout\_marginLeft="20sp"  
 android:onClick="number"  
 android:text="0"** />  
  
  
 <**Button  
 android:id="@+id/btnH"  
 android:layout\_width="40sp"  
 android:layout\_height="wrap\_content"  
 android:layout\_column="0"  
 android:layout\_marginStart="20sp"  
 android:layout\_marginLeft="20sp"  
 android:text="#"** />  
 </**TableRow**>  
 </**TableLayout**>  
  
 <**TableLayout  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"**>  
  
 <**TableRow  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"**>  
  
 <**Button  
 android:id="@+id/button4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="40sp"  
 android:layout\_marginLeft="40sp"  
 android:layout\_marginEnd="20sp"  
 android:layout\_marginRight="20sp"  
 android:onClick="call"  
 android:text="CALL"** />  
  
 <**Button  
 android:id="@+id/button5"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:onClick="save"  
 android:text="SAVE"** />  
 </**TableRow**>  
  
 </**TableLayout**>  
 </**LinearLayout**>  
</**androidx.constraintlayout.widget.ConstraintLayout**>

**Kotlin code: Main Activity**

@Suppress(**"DEPRECATION"**)  
**class** MainActivity : AppCompatActivity() {  
 **override fun** onCreate(savedInstanceState: Bundle?) {  
 **super**.onCreate(savedInstanceState)  
 setContentView(R.layout.*activity\_main*)  
 }  
  
 **fun** number(v: View?) {  
  
 **var** e=findViewById<View>(R.id.*pno*) **as** EditText  
 **var** b=v **as** Button  
 e.setText(e.*text*.toString()+b.*text*)  
 }  
  
 **fun** save(v: View?)  
 {  
 **val** pno = findViewById(R.id.*pno*) **as** EditText  
 **var** pname=findViewById<View>(R.id.*pname*) **as** EditText  
 **val** intent = Intent(ContactsContract.Intents.Insert.*ACTION*)  
 intent.setType(ContactsContract.RawContacts.*CONTENT\_TYPE*)  
 intent.putExtra(ContactsContract.Intents.Insert.*NAME*, pno.*text*.toString())  
 intent.putExtra(ContactsContract.Intents.Insert.*PHONE*, pname.*text*.toString())  
 startActivityForResult(intent, 1)  
  
  
 }  
  
 **override fun** onActivityResult(requestCode: Int, responseCode: Int, data: Intent?) {  
 **super**.onActivityResult(requestCode, responseCode, data)  
  
 **if**(requestCode==1)  
 {  
 **if**(responseCode== Activity.*RESULT\_OK*)  
 {  
 Toast.makeText(**this**,**"saved successfully"**,Toast.*LENGTH\_LONG*).show()  
 }  
 **if**(responseCode== Activity.*RESULT\_CANCELED*)  
 {  
 Toast.makeText(**this**,**"Cancelled"**,Toast.*LENGTH\_LONG*).show()  
 }  
 }  
  
 }  
  
 **fun** call(v:View?)  
 {  
 **var** e=findViewById<View>(R.id.*pno*) **as** EditText  
 **var** pno=e.*text*.toString()  
 **var** i=Intent(Intent.*ACTION\_CALL*)  
 i.*data*= Uri.parse(**"tel:+91"**+pno) *//Follow protocol  
  
 //Run time permission setting* ActivityCompat.requestPermissions(**this**,*arrayOf*(Manifest.permission.*CALL\_PHONE*),0)  
 startActivity(i)  
 }  
  
 **fun** del(v:View?)  
 {  
 **var** e=findViewById<View>(R.id.*pno*) **as** EditText  
 e.setText(**""**)  
 }  
}