Program-8:

Main Activity (activity_main.xml)

```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"
```

```xml
        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" />
```

```xml
    <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>
```

```xml
<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="*" />
```

```xml
        <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
@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)
```

```kotlin
            {
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("")
    }
}
```