Program-8:

XML file:

```
Main Activity (activity_main.xml)
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
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.C
ALL_PHONE),0)
        startActivity(i)
    }
    fun del(v:View?)
        var e=findViewById<View>(R.id.pno) as EditText
        e.setText("")
    }
}
```