Aim:

**Design an android application to perform different types of operations (send SMS, Making call and sending email) by using Telephony app.**

**First add these permissions in Manifest File**:

<uses-permission android:name="android.permission.SEND\_SMS"/>

<uses-permission

android:name="android.permission.READ\_PHONE\_STATE"/>

<uses-permission android:name="android.permission.CALL\_PHONE"/>

<uses-permission android:name="android.permission.INTERNET"/>

<uses-permission

android:name="android.permission.READ\_EXTERNAL\_STORAGE"/>

Go to Activity\_main.XML file:

*<?*xml version="1.0" encoding="utf-8"*?>* <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android" android:layout\_width="match\_parent" android:layout\_height="match\_parent" android:orientation="vertical"> <EditText android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:hint="Enter Mobile Num" android:id="@+id/et1"/> <EditText android:layout\_width="match\_parent"

android:layout\_height="wrap\_content" android:hint="Enter Message" android:id="@+id/et2" />

<LinearLayout android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:orientation="horizontal"> <Button android:layout\_width="0dp" android:layout\_height="wrap\_content" android:layout\_weight="0.5" android:text="SEND SMS" android:onClick="sendSms" />

<Button android:layout\_width="0dp" android:layout\_height="wrap\_content" android:layout\_weight="0.5" android:text="CALL" android:onClick="call" /> </LinearLayout>

<EditText android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:id="@+id/et3" android:hint="Enter Mail id"/>

<EditText android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:id="@+id/et4" android:hint="Enter Subject" />

<EditText android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:id="@+id/et5" android:hint="Enter Message"/> <Button android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="ATTACH" android:onClick="attach" android:layout\_gravity="right"/> <LinearLayout android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:orientation="horizontal"> <Button android:layout\_width="0dp" android:layout\_height="wrap\_content" android:layout\_weight="0.5" android:text="SEND MAIL" android:onClick="send\_mail"/> <Button android:layout\_width="0dp" android:layout\_height="wrap\_content" android:layout\_weight="0.5" android:text="JAVA MAIL" android:onClick="java\_mail"/> </LinearLayout> </LinearLayout>

Now create two Activity XML files.

1) Goto java folder and rightclick on folder new Activity select Empty Activity and provide name

Activity\_delivary.xml file:

*<?*xml version="1.0" encoding="utf-8"*?>* <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android" android:layout\_width="match\_parent" android:layout\_height="match\_parent" android:orientation="vertical">

<TextView android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:text="Message Delivered" android:textSize="30sp"/> </LinearLayout>

DelivaryActivity.java:

**package** com.example.hi.telephonetextapp; **import** android.support.v7.app.AppCompatActivity; **import** android.os.Bundle; **public class** DelivaryActivity **extends** AppCompatActivity { @Override **protected void** onCreate(Bundle savedInstanceState) { **super**.onCreate(savedInstanceState); setContentView(R.layout.***activity\_delivary***); }

}

**Goto java folder and rightclick on folder** **new** **Activity** **select Empty Activity and provide name**

**Activity\_send.xml file:**

*<?***xml version="1.0" encoding="utf-8"***?>* <**LinearLayout xmlns:android="http://schemas.android.com/apk/res/android" android:layout\_width="match\_parent" android:layout\_height="match\_parent" android:orientation="vertical"**>

<**TextView android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:text="Message Send" android:textSize="30sp"**/> </**LinearLayout**>

**SendActivity.java:**

**package** com.example.hi.telephonetextapp; **import** android.support.v7.app.AppCompatActivity; **import** android.os.Bundle; **public class** sendActivity **extends** AppCompatActivity { @Override **protected void** onCreate(Bundle savedInstanceState) { **super**.onCreate(savedInstanceState); setContentView(R.layout.***activity\_send***); } }

**MainActivity.Java**

**package** com.example.hi.telephonetextapp; **import** android.app.PendingIntent; **import** android.content.Intent; **import** android.net.Uri; **import** android.support.v7.app.AppCompatActivity; **import** android.os.Bundle; **import** android.telephony.SmsManager; **import** android.view.View; **import** android.widget.EditText; **public class** MainActivity **extends** AppCompatActivity { EditText **et1**,**et2**; @Override **protected void** onCreate(Bundle savedInstanceState) { **super**.onCreate(savedInstanceState); setContentView(R.layout.***activity\_main***); **et1**=(EditText)findViewById(R.id.***et1***); **et2**=(EditText)findViewById(R.id.***et2***); }

**public void** sendSms(View v) { SmsManager sManager=SmsManager.*getDefault*(); Intent send\_intent=**new** Intent(**this**,sendActivity.**class**); Intent del\_intent=**new** Intent(**this**,DelivaryActivity.**class**); PendingIntent

P\_Send\_Intent=PendingIntent.*getActivity*(**this**,0,send\_intent,0); PendingIntent P\_Del\_Intent=PendingIntent.*getActivity*(**this**,0,del\_intent,0); sManager.sendTextMessage(**et1**.getText().toString(),**null**,**et2**.getText().toString(),

P\_Send\_Intent, P\_Del\_Intent); }

**public void** call(View v) { Intent i=**new** Intent();

i.setAction(Intent.***ACTION\_CALL***); i.setData(Uri.*parse*(**"tel:"**+**et1**.getText().toString())); startActivity(i); } **public void** attach(View v){ Intent i=**new** Intent(); i.setAction(Intent.***ACTION\_GET\_CONTENT***); i.setType(**"\*/\*"**); startActivityForResult(i,123); } Uri **u**; @Override **protected void** onActivityResult(**int** requestCode, **int** resultCode, Intent data) { **super**.onActivityResult(requestCode, resultCode, data); **if**(resultCode==***RESULT\_OK***){ **u**=data.getData(); } }

**public void** send\_mail(View v){ EditText et3=(EditText)findViewById(R.id.***et3***); EditText et4=(EditText)findViewById(R.id.***et4***); EditText et5=(EditText)findViewById(R.id.***et5***); Intent i=**new** Intent(); i.setAction(Intent.***ACTION\_SEND***); i.putExtra(Intent.***EXTRA\_EMAIL***,**new** String[]{et3.getText().toString()}); i.putExtra(Intent.***EXTRA\_SUBJECT***,et4.getText().toString()); i.putExtra(Intent.***EXTRA\_TEXT***, et5.getText().toString()); i.putExtra(Intent.***EXTRA\_STREAM***, **u**); i.setType(**"message/rfc822"**); startActivity(i.*createChooser*(i,**"Select any Email Client"**)); } }

**OUTPUT:**

