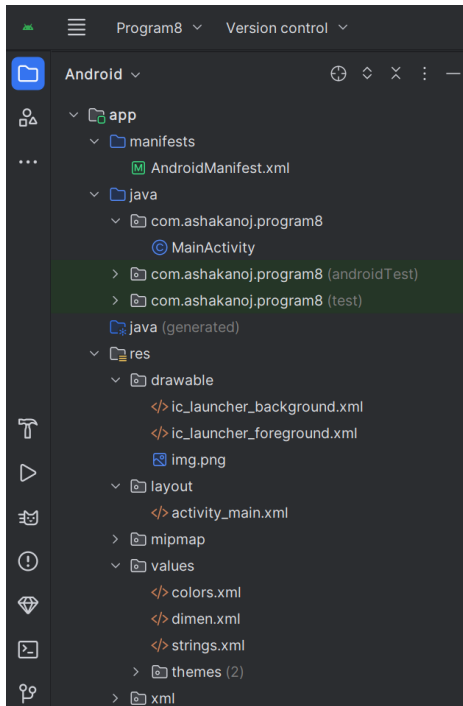


## 8. Create an application to send SMS.

### STRUCTURE OF A PROGRAM:



### Activity\_main.xml File:

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@color/gray"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    tools:context="MainActivity">

    <TextView
        android:id="@+id/textView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Sending SMS!!!"
        android:textColor="@color/blue"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true"
        android:textSize="30dp" />

    <TextView
```

```
        android:id="@+id/textView2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Surana College "
        android:textColor="@color/white"
        android:textSize="25dp"
        android:layout_below="@+id/textView1"
        android:layout_alignRight="@+id/imageButton"
        android:layout_alignEnd="@+id/imageButton" />
```

<ImageButton

```
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/imageButton"
        android:src="@drawable/img"
        android:layout_below="@+id/textView2"
        android:layout_centerHorizontal="true" />
```

<EditText

```
        android:layout_width="wrap_content"
        android:layout_height="30dp"
        android:id="@+id/editText"
        android:hint="Enter Phone Number"
        android:phoneNumber="true"
        android:layout_marginTop="10dp"
        android:background="@color/skyblue"
        android:textColorHint="@color/abc_primary_text_material_dark"
        android:layout_below="@+id/imageButton"
        android:layout_centerHorizontal="true" />
```

<EditText

```
        android:layout_width="wrap_content"
        android:layout_height="30dp"
        android:id="@+id/editText2"
        android:layout_below="@+id/editText"
        android:layout_alignLeft="@+id/editText"
        android:layout_alignStart="@+id/editText"
        android:textColorHint="@color/abc_primary_text_material_dark"
        android:layout_alignRight="@+id/imageButton"
        android:layout_alignEnd="@+id/imageButton"
        android:layout_marginTop="20dp"
        android:background="@color/yellowgreen"
        android:hint="Enter SMS" />
```

<Button

```
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Send SMS"
        android:id="@+id/btnSendSMS"
        android:layout_below="@+id/editText2"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="48dp" />
```

</RelativeLayout>

## MainActivity.java File:

```
package com.ashakanoj.program8;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.telephony.SmsManager;
import android.view.View;

import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {
    EditText phonenumber, message;
    Button send;
    String phone;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        send = findViewById(R.id.button);
        phonenumber = findViewById(R.id.editText);
        message = findViewById(R.id.editText2);
        send.setOnClickListener(new View.OnClickListener() {

            public void onClick(View view) {
                String number = phonenumber.getText().toString();
                String msg = message.getText().toString();
                try {
                    SmsManager smsManager = SmsManager.getDefault();
                    smsManager.sendTextMessage(number, null, msg, null,
null);
                    Toast.makeText(getApplicationContext(), "Message Sent",
Toast.LENGTH_LONG).show();
                } catch (Exception e) {
                    Toast.makeText(getApplicationContext(), "Field is Empty",
Toast.LENGTH_LONG).show();
                }
            }
        });
    }
}
```

Output:

