Practical 29

1. Write a Program to send message(SMS).

Xml Code :

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  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"
  android:orientation="vertical">
  <TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:textColor="@color/black"
    android:layout_gravity="center"
    android:textSize="30dp"
    android:layout_marginTop="25dp"
    android:text="Program to Send an SMS"/>
  <EditText
    android:layout_width="match_parent"
    android:layout_height="55dp"
    android:layout marginLeft="20dp"
    android:layout_marginRight="20dp"
    android:layout_marginTop="70dp"
    android:background="@drawable/cstm"
    android:textColor="@color/black"
    android:textSize="23dp"
    android:hint="Enter mobile Number"
    android:id="@+id/txt1"/>
  <EditText
    android:layout_width="match_parent"
    android:layout_height="125dp"
    android:layout_marginLeft="20dp"
    android:layout_marginRight="20dp"
    android:layout_marginTop="30dp"
    android:background="@drawable/cstm"
    android:textColor="@color/black"
    android:textSize="25dp"
    android:gravity="start"
    android:hint="Type Message"
    android:id="@+id/txt2"/>
  <Button
```

```
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    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:text="Send SMS"
    android:textSize="30dp"
    android:layout_gravity="center"
    android:layout marginTop="30dp"
    android:backgroundTint="@color/black"
    android:id="@+id/btn"
    />
</LinearLayout>
Java Code:
package com.example.exp29;
import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.app.ActivityCompat;
import androidx.core.content.ContextCompat;
import android. Manifest;
import android.content.pm.PackageManager;
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 mob,msg;
  Button sms:
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    mob = (EditText) findViewById(R.id.txt1);
    msg = (EditText) findViewById(R.id.txt2);
    sms = (Button) findViewById(R.id.btn);
    sms.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View view) {
         if(ContextCompat.checkSelfPermission(MainActivity.this, Manifest.permission.SEND_SMS)
         == PackageManager.PERMISSION_GRANTED){
           sendsms();
         }
         else{
              ActivityCompat.requestPermissions(MainActivity.this,new
             String[]{Manifest.permission.SEND_SMS},100);
         }
       }
    });
  public void sendsms(){
    String mobno = mob.getText().toString().trim();
    String mssg = msg.getText().toString().trim();
```

```
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    if(mobno.equals("")){
      Toast.makeText(getApplicationContext(), "Please enter mobile number",
      Toast.LENGTH_SHORT).show();
    else if(mssg.equals("")){
      Toast.makeText(getApplicationContext(), "Please enter Message",
      Toast.LENGTH_SHORT).show();
    else if(mobno.length() != 10){
      Toast.makeText(getApplicationContext(), "Mobile number should be of 10 digits",
      Toast.LENGTH_SHORT).show();
    else {
      SmsManager smsManager = SmsManager.getDefault();
      smsManager.sendTextMessage(mobno,null,mssg,null,null);
      Toast.makeText(getApplicationContext(), "SMS Sent Sucessfully",
      Toast.LENGTH_SHORT).show();
    }
  @Override
      public void onRequestPermissionsResult(int requestCode, @NonNull String[] permissions,
       @NonNull int[] grantResults) {
    super.onRequestPermissionsResult(requestCode, permissions, grantResults);
      if(requestCode == 100 && grantResults.length > 0 && grantResults[0]==
      PackageManager.PERMISSION_GRANTED){
        sendsms();
      else{
       Toast.makeText(getApplicationContext(),"Permission Denied!!",Toast.LENGTH_LONG).show();
  }
```

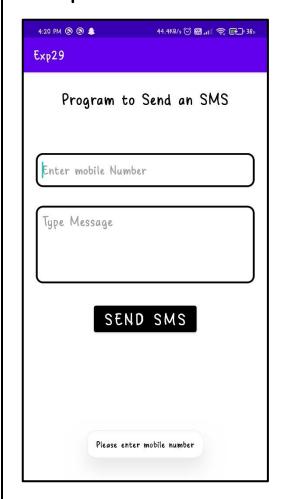
}

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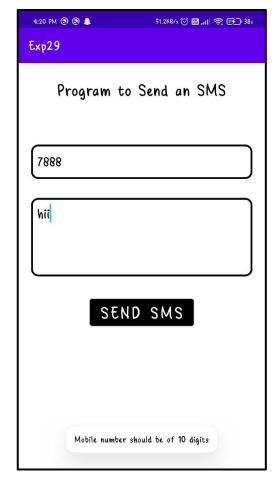
Output:

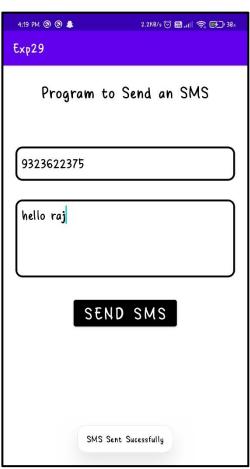
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2. Write a Program to demonstrate fragments.

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Activity_Main.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
android:orientation="horizontal"
android:layout_width="match_parent"
android:layout_height="match_parent">
<fragment android:name="com.example.myapplication.Main6Activity"</pre>
android:id="@+id/list"
android:layout_weight="2"
android:layout_width="0dp"
android:layout_height="match_parent" />
<fragment android:name="com.example.myapplication.Main7Activity"</pre>
android:id="@+id/viewer"
android:layout_weight="2"
android:layout width="0dp"
android:layout_height="match_parent" />
</LinearLayout>
```

Main_Activity.java:

```
package com.example.myapplication;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
public class Main5Activity extends AppCompatActivity {
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main5);}}
```

Activity_main2.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
xmlns:android="http://schemas.android.com/apk/res/android"
android:orientation="vertical"
android:layout_width="fill_parent"
android:layout_height="fill_parent"
android:background="#000000">
<TextView
android:layout_width="fill_parent"
android:layout_height="wrap_content"
android:text="Hello Everyone! Myself Aashutosh"
android:textColor="#FFFFFF"
android:textSize="30dp" />
</LinearLayout>
```

```
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Main2Activity.java:
package com.example.myapplication;
import androidx.appcompat.app.AppCompatActivity;
import androidx.fragment.app.Fragment;
import android.os.Bundle;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
public class Main6Activity extends Fragment {
@Override
public void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
public View on Create View (Layout Inflater inflater, View Group container,
Bundle savedInstanceState) {
return inflater.inflate(R.layout.activity_main6,container, false);}}
Activity_main3.xml:
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
xmlns:android="http://schemas.android.com/apk/res/android"
android:orientation="horizontal"
android:layout width="fill parent"
android:layout_height="fill_parent"
android:background="#666666">
<TextView
android:layout_width="fill_parent"
android:layout_height="wrap_content"
android:text="Welcome"
android:textColor="#000000"
android:textSize="30dp" />
</LinearLayout>
Main3Activity.java:
package com.example.myapplication;
import androidx.appcompat.app.AppCompatActivity;
import androidx.fragment.app.Fragment;
import android.os.Bundle;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
public class Main7Activity extends Fragment {
@Override
public void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);}
public View on Create View (Layout Inflater inflater, View Group container,
Bundle savedInstanceState) {
return inflater.inflate(R.layout.activity_main7, container, false);}}
```

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Output:



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