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PRACTICAL NO - 06

AIM:- Write a program to send and receive text messages using SMSManager API.

activity main.xml File:-

```
<?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"
  android:orientation="vertical"
  tools:context=".MainActivity">
  <EditText
    android:id="@+id/editTextText"
    android:layout marginTop="100dp"
    android:layout width="375dp"
    android:layout height="55dp"
    android:ems="10"
    android:hint="Enter number" />
  <EditText
    android:layout_marginTop="20dp"
    android:id="@+id/editTextText2"
    android:layout width="361dp"
    android:layout height="50dp"
    android:ems="10"
    android:inputType="text"
    android:hint="Enter Name
"/>
  <Button
    android:layout marginTop="20dp"
    android:id="@+id/button"
    android:layout gravity="center"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="Send Text" />
</LinearLayout>
MainActivity File.
package com.example.smsapi;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
```

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```
import android.telephony.SmsManager;
import android.widget.Toast;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
public class MainActivity extends AppCompatActivity {
  Button button; EditText phno;
  EditText msg;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
    button = (Button) findViewById(R.id.button);
    phno = (EditText) findViewById(R.id.editTextText);
    msg = (EditText) findViewById(R.id.editTextText2);
    button.setOnClickListener(new View.OnClickListener(){
       public void onClick(View view){
         sendSMSMessage ();
       } }); }
  protected void sendSMSMessage() {
    String phoneNo = phno.getText().toString();
    String message = msg.getText().toString();
    try{
       SmsManager smsManager = SmsManager.getDefault();
       if(phoneNo.length()==10){
         Toast.makeText(this, "", Toast.LENGTH_SHORT).show();
       }
       else{
         Toast.makeText(this,"Invalid number",
Toast.LENGTH_SHORT).show();
         return;
```

```
smsManager.sendTextMessage(phoneNo, null,
message,null,null);
     Toast.makeText(getApplicationContext(), "SMS sent.",
Toast.LENGTH_LONG). show();
   catch (Exception e) {
     Toast.makeText(getApplicationContext(), "SMS failed, please
try again.", Toast.LENGTH LONG).show();
      e.printStackTrace();
}}}
Android Manifest.xml File.
<?xml version="1.0" encoding="utf-8"?>
<manifest
xmlns:android="http://schemas.android.com/apk/res/androi
d"
  xmlns:tools="http://schemas.android.com/tools">
  <uses-feature
    android:name="android.hardware.telephony"
    android:required="false" />
  <uses-permission
android:name="android.permission.SEND SMS"/>
  <application
    android:allowBackup="true"
android:dataExtractionRules="@xml/data extraction rules
    android:fullBackupContent="@xml/backup rules"
    android:icon="@mipmap/ic launcher"
    android:label="@string/app_name"
    android:roundIcon="@mipmap/ic launcher round"
    android:supportsRtl="true"
    android:theme="@style/Theme.SmsApi"
    tools:targetApi="31">
    <activity
       android:name=".MainActivity"
       android:exported="true">
       <intent-filter>
         <action
android:name="android.intent.action.MAIN" />
         <category
android:name="android.intent.category.LAUNCHER" />
```

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```
</ri>/intent-filter></ri>/activity></ri>/application>
```

</manifest

OUTPUT:-



