Practical 29

MainActivity.java

```java
package com.example.practical30;

import androidx.appcompat.app.AppCompatActivity;

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 mobileno,msg;

    Button b;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        mobileno=findViewById(R.id.mobileno);

        msg=findViewById(R.id.msg);

        b=findViewById(R.id.sendbutton);

        b.setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View view) {

                String num=mobileno.getText().toString();

                String text=msg.getText().toString();

                try {

                    if (android.os.Build.VERSION.SDK_INT >= android.os.Build.VERSION_CODES.M) {

                        if (checkSelfPermission(android.Manifest.permission.SEND_SMS)==
PackageManager.PERMISSION_GRANTED) {
```

```
                    SmsManager sm = SmsManager.getDefault();

                    sm.sendTextMessage(num, null, text, null, null);

                    Toast.makeText(getApplicationContext(), "Sms sent", Toast.LENGTH_LONG).show();

                } else

                    requestPermissions(new String[]{Manifest.permission.SEND_SMS}, 1);

            }

        }

        catch (Exception e){

            e.printStackTrace();

            Toast.makeText(getApplicationContext(),"Sending sms
failed",Toast.LENGTH_LONG).show();

        }

    }

});

    }

}
```

activity_main.xml

```xml
<?xml version="1.0" encoding="utf-8"?>

<androidx.constraintlayout.widget.ConstraintLayout
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:layout_marginLeft="30dp"

        android:layout_marginRight="30dp"

        android:layout_marginTop="30dp"
```

```xml
        android:orientation="vertical">

    <TextView

        android:layout_width="match_parent"

        android:layout_height="wrap_content"

        android:text="Android SMS"

        android:textSize="20dp"

        android:textStyle="bold"

        android:layout_marginBottom="30dp"

        android:gravity="center"/>

    <EditText

        android:id="@+id/mobileno"

        android:layout_width="match_parent"

        android:layout_height="50dp"

        android:ems="10"

        android:hint="Enter Mobile Number" />

    <EditText

        android:id="@+id/msg"

        android:layout_width="match_parent"

        android:layout_height="70dp"

        android:ems="10"

        android:inputType="textMultiLine"

        android:hint="Enter Message" />

    <Button

        android:id="@+id/sendbutton"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:layout_gravity="center"

        android:layout_marginTop="30dp"

        android:text="Send" />

    </LinearLayout>

</androidx.constraintlayout.widget.ConstraintLayout>
```

OUTPUT

7:15 ⚙ ▣ ☰   ▼◢ ▯

Practical 30

Android SMS

9999999999

Welcome to android sms

SEND

Sms sent

◀ ● ■

7:15 ⚙ ▣ ☰   ▼◢ ▯

← (999) 999-9999   📞 🔍 ⋮

7:15 PM

Welcome to android sms

Now · SMS

⊕ 🖼 Text message   😊 🎤

◀ ● ■