EX 11

ANDROID MANIFEST

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
          xmlns:tools="http://schemas.android.com/tools">

    <uses-permission android:name="android.permission.SEND_SMS" />
    <uses-feature android:name="android.hardware.telephony"
android:required="false" />

    <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.Ex11"
            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"/>
            </intent-filter>
        </activity>
    </application>

</manifest>
```

ACTIVITY MAIN

```
<?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"
              android:padding="16dp">

    <EditText
            android:id="@+id/editTextPhoneNumber"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:hint="Phone Number" />

    <EditText
            android:id="@+id/editTextMessage"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:hint="Message" />

    <Button
            android:id="@+id/buttonSend"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:text="Send" />

</LinearLayout>
```

MAIN ACTIVITY

```
package com.example.ex11

import android.Manifest
import android.content.pm.PackageManager
import android.os.Bundle
import android.telephony.SmsManager
import android.widget.Button
import android.widget.EditText
import android.widget.Toast
import androidx.appcompat.app.AppCompatActivity
import androidx.core.app.ActivityCompat
import androidx.core.content.ContextCompat

class MainActivity : AppCompatActivity() {
    private lateinit var phoneNumberEditText: EditText
    private lateinit var messageEditText: EditText
    private lateinit var sendButton: Button

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)

        phoneNumberEditText = findViewById(R.id.editTextPhoneNumber)
        messageEditText = findViewById(R.id.editTextMessage)
        sendButton = findViewById(R.id.buttonSend)

        sendButton.setOnClickListener {
            val phoneNumber = phoneNumberEditText.text.toString()
            val message = messageEditText.text.toString()

            if (ContextCompat.checkSelfPermission(this,
Manifest.permission.SEND_SMS)
                != PackageManager.PERMISSION_GRANTED
            ) {
                ActivityCompat.requestPermissions(
                    this,
                    arrayOf(Manifest.permission.SEND_SMS),
                    PERMISSION_REQUEST_CODE
                )
            } else {
                sendMessage(phoneNumber, message)
            }
        }
    }

    private fun sendMessage(phoneNumber: String, message: String) {
        try {
            val smsManager = SmsManager.getDefault()
            smsManager.sendTextMessage(phoneNumber, null, message, null, null)
            Toast.makeText(this, "Message sent successfully",
Toast.LENGTH_SHORT).show()
        } catch (e: Exception) {
            Toast.makeText(this, "Failed to send message",
Toast.LENGTH_SHORT).show()
            e.printStackTrace()
        }
    }

    override fun onRequestPermissionsResult(
        requestCode: Int,
        permissions: Array<out String>,
        grantResults: IntArray
    ) {
        super.onRequestPermissionsResult(requestCode, permissions, grantResults)
        if (requestCode == PERMISSION_REQUEST_CODE) {
            if (grantResults.isNotEmpty() && grantResults[0] ==
PackageManager.PERMISSION_GRANTED) {
                val phoneNumber = phoneNumberEditText.text.toString()
                val message = messageEditText.text.toString()
                sendMessage(phoneNumber, message)
            } else {
                Toast.makeText(
                    this,
                    "Permission denied, message cannot be sent",
                    Toast.LENGTH_SHORT
                ).show()
            }
        }
    }

    companion object {
        const val PERMISSION_REQUEST_CODE = 100
    }
}
```