```
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.app.ActivityCompat;
import androidx.core.content.ContextCompat;
import android.annotation.SuppressLint;
import android.app.Activity;
import android.content.pm.PackageManager;
import android.database.Cursor;
import android.net.Uri;
import android.os.Bundle;
import android.telephony.SmsManager;
import android.widget.EditText;
import android.widget.Toast;
   EditText na, num, message;
   @Override
   protected void onCreate(Bundle savedInstanceState) {
        Toast t = new Toast(this);
        na = findViewById(R.id.name);
        ib = findViewById(R.id.ib);
        send sms = findViewById(R.id.Send sms);
            @Override
            public void onClick(View view) {
        requestContactsPermission();
        send sms.setOnClickListener(new View.OnClickListener() {
            @Override
                pn = num.getText().toString();
                mess = message.getText().toString();
                    t.setDuration(Toast.LENGTH SHORT);
```

```
t.show();
                    SmsManager smsManager = SmsManager.getDefault();
                    smsManager.sendTextMessage(pn, null, mess, null,
                    t.setText("SMS Sent");
                    t.setDuration(Toast.LENGTH SHORT);
                    t.show();
    private void requestContactsPermission() {
        if (!hasContactsPermission()) {
            ActivityCompat.requestPermissions(this,
                    new String[] {Manifest.permission.READ CONTACTS},
        if (!hasSendSMSPermission()) {
            ActivityCompat.requestPermissions(this,
                    new String[]{Manifest.permission.SEND SMS}, 1);
    private boolean hasContactsPermission() {
        return ContextCompat.checkSelfPermission(this,
Manifest.permission.READ CONTACTS)
    private boolean hasSendSMSPermission() {
        return ContextCompat.checkSelfPermission(this,
Manifest.permission.SEND SMS) ==
    protected void onActivityResult(int requestCode, int resultCode,
        super.onActivityResult(requestCode, resultCode, data);
                new String[]{"display name", "data1"},
            if (cursor.getCount() == 0) return;
            na.setText(cursor.getString(0));
            num.setText(cursor.getString(1));
            System.out.println("in phone cursor");
```

```
}
}
```

xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
    android:layout width="match parent"
    android:orientation="vertical
    <LinearLayout
        android:layout width="wrap content"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintStart toStartOf="parent">
        <TextView
            android:layout height="wrap content"
        <LinearLayout
            android:layout width="wrap content"
            android:layout height="wrap content"
            android:orientation="horizontal">
            <TextView
                android:layout width="wrap content"
                android:layout height="wrap content"
                android:gravity="center"
                android:textSize="30dp"
                android:text="Name:"/>
            <EditText
                android:layout width="250dp"
                android:layout gravity="top"
                android:id="@+id/name"/>
            <ImageButton</pre>
                android:layout width="50dp"
                android:layout height="50dp"
                android:id="@+id/ib"
        </LinearLayout> <LinearLayout</pre>
        android:layout width="wrap content"
        android:orientation="horizontal">
        <TextView
            android:layout height="wrap content"
```

```
android:textSize="30dp"
        <EditText
            android:layout width="400dp"
            android:layout height="50dp"
    </LinearLayout> <LinearLayout
        android:orientation="horizontal">
        <TextView
            android:layout width="wrap content"
            android:text="Message:"/>
        <EditText
            android:layout width="400dp"
            android:layout height="50dp"
            android: layout gravity="top"
    </LinearLayout>
        <Button
            android:layout width="wrap content"
            android:layout height="wrap content"
            android:layout gravity="center"
            android:clickable="true"
            android:id="@+id/Send sms"/>
    </LinearLayout>
</androidx.constraintlayout.widget.ConstraintLayout>
```

Manifest

```
<uses-permission android:name="android.permission.SEND_SMS"/>
<uses-permission android:name="android.permission.READ_CONTACTS"/>
<uses-permission android:name="android.permission.WRITE_CONTACTS"/>
```