package com.example.a6b;  
  
import android.Manifest;  
import android.annotation.SuppressLint;  
import android.app.Activity;  
import android.content.Intent;  
import android.database.Cursor;  
import android.net.Uri;  
import android.os.Bundle;  
import android.provider.ContactsContract;  
import android.widget.Button;  
import android.widget.Toast;  
  
import androidx.appcompat.app.AppCompatActivity;  
import androidx.core.app.ActivityCompat;  
  
@SuppressWarnings("ALL")  
public class MainActivity extends AppCompatActivity {  
  
 public static final int RequestPermissionCode = 1;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_main);  
 Button button = findViewById(R.id.button);  
 EnableRuntimePermission();  
 button.setOnClickListener(v -> {  
 Intent intent = new Intent(Intent.ACTION\_PICK, ContactsContract.Contacts.CONTENT\_URI);  
 startActivityForResult(intent, 1);  
 });  
 }  
  
 public void EnableRuntimePermission() {  
  
 if (ActivityCompat.shouldShowRequestPermissionRationale(MainActivity.this, Manifest.permission.READ\_CONTACTS)) {  
 Toast.makeText(MainActivity.this, "CONTACTS permission allows us to Access CONTACTS app", Toast.LENGTH\_LONG).show();  
 } else {  
 ActivityCompat.requestPermissions(MainActivity.this, new String[]{Manifest.permission.READ\_CONTACTS}, RequestPermissionCode);  
 }  
 }  
  
 @Override  
 public void onActivityResult(int reqCode, int resultCode, Intent data) {  
 super.onActivityResult(reqCode, resultCode, data);  
 if (reqCode == 1) {  
 if (resultCode == Activity.RESULT\_OK) {  
 Uri contactData = data.getData();  
 try (Cursor c = managedQuery(contactData, null, null, null, null)) {  
 if (c.moveToFirst()) {  
 String id = c.getString(c.getColumnIndexOrThrow(ContactsContract.Contacts.\_ID));  
 @SuppressLint("Range")  
 String hasPhone = c.getString(c.getColumnIndex(ContactsContract.Contacts.HAS\_PHONE\_NUMBER));  
 if (hasPhone.equalsIgnoreCase("1")) {  
 Cursor phones = getContentResolver().query(ContactsContract.CommonDataKinds.Phone.CONTENT\_URI, null, ContactsContract.CommonDataKinds.Phone.CONTACT\_ID + " = " + id, null, null);  
 phones.moveToFirst();  
 @SuppressLint("Range")  
 String cNumber = phones.getString(phones.getColumnIndex(ContactsContract.CommonDataKinds.Phone.NUMBER));  
 Toast.makeText(getApplicationContext(), cNumber, Toast.LENGTH\_SHORT).show();  
 phones.close();  
 }  
 }  
 } catch (Exception e) {  
 e.printStackTrace();  
 }  
 }  
 }  
 }  
}