

Xin quyền trong AndroidManifest

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

Tạo hàm getContact để lấy dữ liệu từ danh bạ

```
@SuppressWarnings("Range")

void getContact() {

    ContentResolver ctr = getContentResolver();

    Cursor c = ctr.query(ContactsContract.Contacts.CONTENT_URI, null, null, null, null);

    if (c.moveToFirst()) {

        do {

            String id = c.getString(c.getColumnIndex(ContactsContract.Contacts._ID));

            String name = c.getString(c.getColumnIndex(ContactsContract.Contacts.DISPLAY_NAME));

            if(Integer.parseInt(c.getString(c.getColumnIndex(ContactsContract.Contacts.HAS_PHONE_NUMBER))) > 0){

                Cursor cursor = ctr.query(ContactsContract.CommonDataKinds.Phone.CONTENT_URI, null,

                    ContactsContract.CommonDataKinds.Phone.CONTACT_ID + " = ?", new String[]{id}, null);

                while (cursor.moveToNext()){

                    String phone =

cursor.getString(cursor.getColumnIndex(ContactsContract.CommonDataKinds.Phone.NUMBER));

                    ds.add(id + " - " + name + " - " + phone);

                }

            }

        } while (c.moveToNext());

    }

    ArrayAdapter<String> adapter = new ArrayAdapter<String>(Bai01Activity.this, android.R.layout.simple_list_item_1,

ds);

    listView.setAdapter(adapter);

}
```

Viết code xin quyền

```
@Override

protected void onCreate(Bundle savedInstanceState) {

    super.onCreate(savedInstanceState);

    setContentView(R.layout.activity_bai01);

    listView = findViewById(R.id.listView);

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

        if (ContextCompat.checkSelfPermission(Bai01Activity.this, Manifest.permission.READ_CONTACTS) !=
PackageManager.PERMISSION_GRANTED) {

            if (ActivityCompat.shouldShowRequestPermissionRationale(Bai01Activity.this,
Manifest.permission.READ_CONTACTS)) {

                AlertDialog.Builder builder = new AlertDialog.Builder(Bai01Activity.this);
                builder.setTitle("Contacts access needed");
                builder.setPositiveButton(android.R.string.ok, null);
                builder.setMessage("please confirm Contacts access");//TODO put real question
                builder.setOnDismissListener(new DialogInterface.OnDismissListener() {

                    @TargetApi(Build.VERSION_CODES.M)
                    @Override
                    public void onDismiss(DialogInterface dialog) {

                        requestPermissions(new String[]{Manifest.permission.READ_CONTACTS}, 7979);

                    }

                });

                builder.show();

            } else {

                ActivityCompat.requestPermissions(Bai01Activity.this, new
String[]{Manifest.permission.READ_CONTACTS}, 7979);

            }

        } else {

            getContact();

        }

    } else {

        getContact();

    }

}
```

```
@Override

public void onRequestPermissionsResult(int requestCode, String permissions[], int[] grantResults) {
    super.onRequestPermissionsResult(requestCode, permissions, grantResults);

    if (requestCode == 7979) {
        if (grantResults.length > 0 && grantResults[0] == PackageManager.PERMISSION_GRANTED) {
            getContact();
        } else {
            Toast.makeText(this, "khong co permission", Toast.LENGTH_SHORT).show();
        }
    }
}
```