Content provider

```
<androidx.constraintlayout.widget.ConstraintLayout</pre>
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
     <ListView
          app:layout constraintTop toTopOf="@+id/activity main"
</androidx.constraintlayout.widget.ConstraintLayout>
```

Main activity.java

Content provider

```
ActivityCompat.requestPermissions(this, new
String[]{Manifest.permission.READ CONTACTS},
    public void onRequestPermissionsResult(int requestCode
```

Content provider

edit androidmanifest.xml

Launch an AVD and create a few contacts in the Android Emulator. To add a contact, go to the

Phone application and click the Contact icon at the top (). You see a warning about

backing up your contacts. Click the Keep Local button and enter the name, phone number, and

email address of a few people.