QUE. Write a program to create your own content provider to insert and access data in android application.

## ActivityMain.xml

```
<?xml version="1.0" encoding="utf-8"?>
<AbsoluteLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">
    <ListView android:layout_width="wrap_content"
    android:layout_height="wrap_content" android:id="@+id/l1"
    android:divider="@color/black" android:dividerHeight="2dp"/>
</AbsoluteLayout>
```

## MainActivity.java

```
package com.example.containt_provider;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.app.ActivityCompat;
import androidx.core.content.ContextCompat;
                                                   import android. Manifest;
import android.annotation.SuppressLint;
                                                   import android.content.ContentResolver;
import android.content.pm.PackageManager;
                                                   import android.database.Cursor;
import android.net.Uri;
                                                   import android.os.Bundle;
import android.provider.ContactsContract;
                                                   import android.widget.ArrayAdapter;
import android.widget.ListView;
                                                   import java.util.ArrayList;
public class MainActivity extends AppCompatActivity {
  ListView listView;
                                           ArrayList arrayList;
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    listView=findViewById(R.id.l1);
    arrayList=new ArrayList<>();
    fetchContact();}
  private void fetchContact(){
    if(ContextCompat.checkSelfPermission(this, Manifest.permission.READ_CONTACTS)!=
PackageManager.PERMISSION_GRANTED){
      ActivityCompat.requestPermissions(this,new String[]
{Manifest.permission.READ_CONTACTS},0);}
    ContentResolver resolver=getContentResolver();
    Uri uri= ContactsContract.CommonDataKinds.Phone.CONTENT_URI;
                                       String selection=null;
    String [] projection=null;
    String [] selectionArgs=null;
                                        String order=null;
    Cursor cursor=resolver.query(uri,projection,selection,selectionArgs,order);
    if(cursor.getCount()>0){
      while(cursor.moveToNext()){
        @SuppressLint("Range") String name=cursor.getString(cursor.getColumnIndex
(ContactsContract.CommonDataKinds.Phone.DISPLAY_NAME));
@SuppressLint("Range") String number=cursor.getString(cursor.getColumnIndex
(ContactsContract.CommonDataKinds.Phone.NUMBER));
```

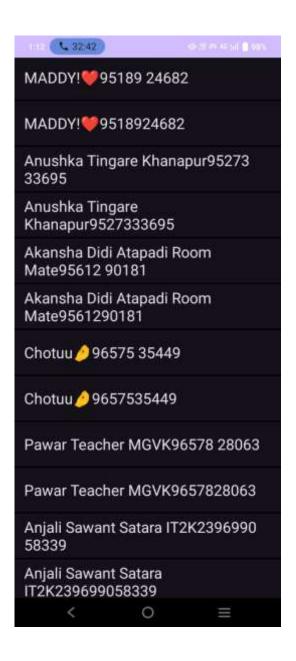
2260: Riya Sunil Kharade

```
String fullContact=name+number; arrayList.add(fullContact); } 
ArrayAdapter adapter=new ArrayAdapter(this, 
android.R.layout.select_dialog_item,arrayList); 
listView.setAdapter(adapter);}}
```

## Manifest.java

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

## **OUTPUT:**



2251: Pratik Pramod Shejwal 2260: Riya Sunil Kharade