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Course:-BCA 5A Roll no:- 29

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## Create a simple application in android to fetch data from one application's database into another's using content provider

Main XML Code:-

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/</p>
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">
  <Button
    android:id="@+id/btn"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:layout_marginTop="298dp"
    android:text="Get Contacts"
    android:onClick="Contacts"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout constraintTop toTopOf="parent" />
```

</androidx.constraintlayout.widget.ConstraintLayout>

## Manifest Xml Code:-

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"</p>
  package="com.example.content">
  <uses-permission android:name="android.permission.READ CONTACTS"></uses-permission>
  <uses-permission android:name="android.permission.WRITE CONTACTS"></uses-</p>
permission>
  <application
    android:allowBackup="true"
    android:icon="@mipmap/ic_launcher"
    android:label="@string/app name"
    android:roundlcon="@mipmap/ic launcher round"
    android:supportsRtl="true"
    android:theme="@style/Theme.Content">
    <activity
       android:name=".MainActivity"
       android:exported="true">
       <intent-filter>
         <action android:name="android.intent.action.MAIN" />
         <category android:name="android.intent.category.LAUNCHER" />
       </intent-filter>
    </activity>
  </application>
</manifest>
```

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## Java Code:-

```
package com.example.content;
import androidx.annotation.RequiresApi:
import androidx.appcompat.app.AppCompatActivity:
import androidx.core.app.ActivityCompat;
import androidx.core.content.ContextCompat;
import android. Manifest;
import android.content.ContentResolver;
import android.content.pm.PackageManager;
import android.database.Cursor;
import android.database.CursorIndexOutOfBoundsException;
import android.net.Uri;
import android.os.Build:
import android.os.Bundle;
import android.provider.ContactsContract;
import android.util.Log;
import android.view.View;
public class MainActivity extends AppCompatActivity {
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
  public void Contacts(View v){
    getContacts();
  @RequiresApi(api = Build.VERSION CODES.O)
  private void getContacts() {
    if(ContextCompat.checkSelfPermission(this, Manifest.permission.READ_CONTACTS) !=
PackageManager.PERMISSION_GRANTED){
       ActivityCompat.requestPermissions(this,new String[]
{Manifest.permission.READ CONTACTS },0);
    ContentResolver contactsResolver = getContentResolver();
    Uri uri = ContactsContract.CommonDataKinds.Phone.CONTENT_URI:
    Cursor cursor = contactsResolver.query(uri,null,null,null);
    Log.i("Contacts", "Total # of Contacts" + Integer.toString(cursor.getCount()));
    if(cursor.getCount()>0){
       while(cursor.moveToNext()){
         String contactName =
cursor.getString(cursor.getColumnIndex(ContactsContract.CommonDataKinds.Phone.DISPLAY_N
AME)):
         String contactNumber =
cursor.getString(cursor.getColumnIndex(ContactsContract.CommonDataKinds.Phone.NUMBER));
         Log.i("Contacts", "Contact Name:::::"+contactName+"PH NUM:::"+contactNumber);
    }
  }
}
```

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O/P:-

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```

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