Practical-8.

Create an application that will retrieve a JSON file parse it and they display it into listview.

Xml file

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
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"    android:orientation="vertical">

  <ListView
     android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:id="@+id/list1"
    />

</LinearLayout>
```

```java
package com.example.Exp8;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Context;
import
android.content.res.AssetManager;
import android.os.Bundle; import
android.util.Log; import
android.widget.ArrayAdapter; import
android.widget.ListView;
 import
org.json.JSONArray; import
org.json.JSONException;
import
org.json.JSONObject;
import java.io.IOException;
```

```java
import java.io.InputStream;
import java.util.ArrayList;
import java.util.HashMap;
 public class MainActivity extends
AppCompatActivity {
   ListView list1;
   ArrayList<HashMap<String, String>> formList;
    public String
loadJSONFromAsset() {
     String json = null;
try {
InputStream is =
getApplicationContext().getAssets().open("prabhat.jso
n");          int size = is.available();          byte[] buffer
= new byte[size];          is.read(buffer);          is.close();
json = new String(buffer, "UTF-8");
} catch (IOException ex) {          ex.printStackTrace();
return null;
}      return json;
   }


   @Override
   protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
list=findViewById(R.id.list1);


     try {
       JSONObject obj = new JSONObject(loadJSONFromAsset());
JSONArray m_jArry = obj.getJSONArray("chandigarh");
formList = new ArrayList<HashMap<String, String>>();
       HashMap<String, String> m_li;
        for (int i = 0; i < m_jArry.length(); i++) {
          JSONObject jo_inside = m_jArry.getJSONObject(i);
          Log.d("Details-->", jo_inside.getString("name"));
          String formula_value = jo_inside.getString("name");
          String url_value = jo_inside.getString("class");


//we need to add your values in your `ArrayList` as below:
```

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```java
    m_li = new HashMap<String, String>();
m_li.put("name", formula_value);            m_li.put("class",
url_value);

formList.add(m_li);          }
} catch (JSONException e) {
e.printStackTrace();
}

ArrayAdapter arrayAdapter=new
ArrayAdapter(getApplicationContext(),android.R.layout.simple_list_item_1,for
mList);        list.setAdapter(arrayAdapter);
}
}
```

asset>data.json

```json
{
  "chandigarh": [
   {
     "name": "Aakshi",
     "class": "mca"
   },
   {
     "name": "rajeev",
     "class": "bca"
   }, {
     "name": "guddia",
     "class": "nur"
   },
   {
     "name": "max",
"class": "phd"
   },
   {
     "name": "gagan",
     "class": "pre nur"
   }
}
```