18MCA8095 PRASHANT KUMAR

PRACTICAL: -8

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

Git:- https://github.com/18mca8095/pratical8

Activity_main.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/list"
    />
</LinearLayout>
```

Mainactivity.java

```
package com.example.androidP8;
import androidx.appcompat.app.AppCompatActivity;
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;
import java.io.InputStream;
import java.util.ArrayList;
import java.util.HashMap;
public class MainActivity extends AppCompatActivity {
  ListView list;
  ArrayList<HashMap<String, String>> formList;
  public String loadJSONFromAsset() {
    String json = null;
    try {
```

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```
InputStream is = getApplicationContext().getAssets().open("new.json");
       int size = is.available();
       bvte[] buffer = new bvte[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.list);
    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");
         //Add your values in your `ArrayList` as below:
         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,formList);
    list.setAdapter(arrayAdapter);
  }
asset>new.json
```

}

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```
"chandigarh": [

{
    "name": "Prashant",
    "class": "mca"
},
{
    "name": "Guruvir",
    "class": "bca"
}, {
    "name": "Ederes",
    "class": "nur"
},
{
    "name": "Uday",
    "class": "phd"
},
{
    "name": "Shubu",
    "class": "pre nur"
}
}
```

Output

