**Practical-8.**

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

Xml file

# *<?*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>

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; 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.json"); 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:

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>data.json

{

**"chandigarh"**: [

{

**"name"**: **"Aakshi"**,

**"class"**: **"mca"**

},

{

**"name"**: **"rajeev"**,

**"class"**: **"bca"**

}, {

**"name"**: **"guddia"**,

**"class"**: **"nur"**

},

{

**"name"**: **"max"**, **"class"**: **"phd"**

},

{

**"name"**: **"gagan"**,

**"class"**: **"pre nur"**

}

}

Output

