**Input.xml**

*<?*xml version="1.0"*?>*<place>  
 <city>  
 <city\_name>Bangalore</city\_name>  
 <latitude>12.9716° N</latitude>  
 <longitude>77.5946° E</longitude>  
 <temperature>23°C</temperature>  
 <humidity>80%</humidity>  
 </city>  
</place>

**Input.json**

{  
 "city": {  
 "city\_name": "MYSORE",  
 "latitude": "12.2958° N",  
 "longitude": "76.6394° E",  
 "temperature": "23°C",  
 "humidity": "78%"  
 }  
}

**activity\_main.xml**

*<?*xml version="1.0" encoding="utf-8"*?>*<androidx.constraintlayout.widget.ConstraintLayout 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">  
  
 <TextView  
 android:id="@+id/textView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="100dp"  
 android:text="PARSING XML AND JSON DATA"  
 android:textAlignment="center"  
 android:textSize="34sp"  
 android:textStyle="bold"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <Button  
 android:id="@+id/xmlb"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="125dp"  
 android:text="PARSE XML DATA"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/textView" />  
  
 <Button  
 android:id="@+id/jsonb"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="76dp"  
 android:text="PARSE JSON DATA"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.495"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/xmlb" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

**activity\_main2.xml**

*<?*xml version="1.0" encoding="utf-8"*?>*<androidx.constraintlayout.widget.ConstraintLayout 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=".MainActivity2">  
  
 <TextView  
 android:id="@+id/textView3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="100dp"  
 android:text="PARSING XML AND JSON DATA"  
 android:textAlignment="center"  
 android:textSize="34sp"  
 android:textStyle="bold"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <TextView  
 android:id="@+id/textView4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="50dp"  
 android:layout\_marginTop="45dp"  
 android:text="XML DATA"  
 android:textSize="20sp"  
 android:textStyle="bold"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/textView3" />  
  
 <TextView  
 android:id="@+id/textView5"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="45dp"  
 android:layout\_marginEnd="50dp"  
 android:text="JSON DATA"  
 android:textSize="20sp"  
 android:textStyle="bold"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/textView3" />  
  
 <TextView  
 android:id="@+id/jsonl"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="50dp"  
 android:layout\_marginEnd="50dp"  
 android:text="json data"  
 android:textSize="20sp"  
 android:textStyle="bold"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/textView5" />  
  
 <TextView  
 android:id="@+id/xmll"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="50dp"  
 android:layout\_marginTop="50dp"  
 android:text="xml data"  
 android:textSize="20sp"  
 android:textStyle="bold"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/textView4" />  
  
 <Button  
 android:id="@+id/button"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="375dp"  
 android:text="BACK"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.5"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/textView3" />  
</androidx.constraintlayout.widget.ConstraintLayout>

**MainActivity.java**

package com.example.myapplication;  
  
import androidx.appcompat.app.AppCompatActivity;  
import android.content.\*;  
import android.os.\*;  
import android.view.View;  
import android.widget.Button;  
  
import android.os.Bundle;  
  
public class MainActivity extends AppCompatActivity implements View.OnClickListener {  
  
 Button xmlb,jsonb;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 xmlb=(Button)findViewById(R.id.*xmlb*);  
 jsonb=(Button)findViewById(R.id.*jsonb*);  
 xmlb.setOnClickListener(this);  
 jsonb.setOnClickListener(this);  
 }  
  
 @Override  
 public void onClick(View v) {  
 Intent it=new Intent(this,MainActivity2.class);  
 if(v.equals(xmlb)) it.putExtra("mode",1);  
 if(v.equals(jsonb)) it.putExtra("mode",2);  
 startActivity(it);  
 }  
}

**MainActivity2.java**

package com.example.myapplication;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.\*;  
import org.w3c.\*;  
import java.io.InputStream;  
import javax.xml.parsers.\*;  
import org.json.JSONObject;  
import org.w3c.dom.Document;  
import org.w3c.dom.Element;  
import org.w3c.dom.NodeList;  
import org.w3c.dom.Node;  
  
public class MainActivity2 extends AppCompatActivity implements View.OnClickListener {  
  
 Button button;  
 TextView jsonl,xmll;  
 int mode=0;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main2*);  
 button=(Button)findViewById(R.id.*button*);  
 button.setOnClickListener(this);  
 jsonl = (TextView) findViewById(R.id.*jsonl*);  
 xmll = (TextView) findViewById(R.id.*xmll*);  
 mode = getIntent().getIntExtra("mode", 0);  
 if (mode == 2)  
 parsejson();  
 else  
 parsexml();  
 }  
 public String parsexml()  
 {  
 try{  
 InputStream is=getAssets().open("input.xml");  
 DocumentBuilderFactory dbf=DocumentBuilderFactory.*newInstance*();  
 DocumentBuilder db=dbf.newDocumentBuilder();  
 Document doc=db.parse(is);  
 Element ele=doc.getDocumentElement();  
 ele.normalize();  
 NodeList nl=doc.getElementsByTagName("city");  
  
 for(int i=0;i<nl.getLength();i++){  
 Node node=nl.item(i);  
 if(node.getNodeType()==Node.*ELEMENT\_NODE*){  
 Element ele2=(Element)node;  
 xmll.setText("CITY NAME: "+*getValue*("city\_name",ele2)+"\n");  
 xmll.append("LATITUDE: "+*getValue*("latitude",ele2)+"\n");  
 xmll.append("LONGITUDE: "+*getValue*("longitude",ele2)+"\n");  
 xmll.append("TEMPERATURE: "+*getValue*("temperature",ele2)+"\n");  
 xmll.append("HUMIDITY :"+*getValue*("humidity",ele2)+"\n");  
  
 }  
 }  
 }  
 catch(Exception e){e.printStackTrace();}  
  
 return null;  
 }  
  
 private static String getValue(String tag,Element ele)  
 {  
 NodeList nl=ele.getElementsByTagName(tag).item(0).getChildNodes();  
 Node n=nl.item(0);  
 return n.getNodeValue();  
  
 }  
 public void parsejson()  
 {  
 try{  
 InputStream is=getAssets().open("input.json");  
 byte[] data=new byte[is.available()];  
 is.read(data);  
 String rd=new String(data);  
 JSONObject jsono=new JSONObject(rd);  
 JSONObject jso=jsono.getJSONObject("city");  
 jsonl.setText("CITY NAME: "+jso.getString("city\_name")+"\n");  
 jsonl.append("LATITUDE: "+jso.getString("latitude")+"\n");  
 jsonl.append("LONGITUDE: "+jso.getString("longitude")+"\n");  
 jsonl.append("TEMPERATURE: "+jso.getString("temperature")+"\n");  
 jsonl.append("HUMIDITY: "+jso.getString("humidity")+"\n");  
  
 }  
 catch(Exception e){e.printStackTrace();}  
  
 }  
  
 @Override  
 public void onClick(View v) {  
 Intent it=new Intent(this,MainActivity.class);  
 startActivity(it);  
 }  
}