## Activity\_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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 alignParentEnd="true"
android:layout_alignParentBottom="true"
android:layout_marginEnd="10dp"
android:layout_marginBottom="634dp"
android:text="Parsing XML and JSON"
android:textSize="36sp" />
<Button
android:id="@+id/button"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignParentEnd="true"
android:layout_alignParentBottom="true"
android:layout_marginEnd="153dp"
android:layout_marginBottom="484dp"
android:onClick="parsexml"
android:text="ParseXML" />
<Button
android:id="@+id/button2"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignParentEnd="true"
android:layout_alignParentBottom="true"
android:layout_marginEnd="151dp"
android:layout_marginBottom="364dp"
android:onClick="parsejson"
android:text="ParseJSON" />
<TextView
android:id="@+id/display"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_alignParentEnd="true"
android:layout_alignParentBottom="true"
android:layout_marginEnd="3dp"
android:layout_marginBottom="68dp"
android:text=""
android:textAlignment="center" />
</RelativeLayout>
```

## MainActivity.java

```
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.text.style.TabStopSpan;
import android.view.View;
import android.widget.TextView;
import android.widget.Toast;
import org.json.JSONArray;
import org.json.JSONObject;
import org.w3c.dom.Document:
import org.w3c.dom.Element;
import org.w3c.dom.Node;
import org.w3c.dom.NodeList;
import java.io.InputStream;
import java.nio.charset.StandardCharsets;
import javax.xml.parsers.DocumentBuilder;
import javax.xml.parsers.DocumentBuilderFactory;
public class MainActivity extends AppCompatActivity {
TextView display:
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
display = (TextView)findViewById(R.id.display);
public void parsexml(View V)
{
trv {
InputStream is = getAssets().open("city.xml");
DocumentBuilderFactory documentBuilderFactory = DocumentBuilderFactory.newInstance();
DocumentBuilder documentBuilder = documentBuilderFactory.newDocumentBuilder();
Document document = documentBuilder.parse(is);
StringBuilder stringBuilder = new StringBuilder();
stringBuilder.append("XML DATA");
stringBuilder.append("\n----");
NodeList nodeList = document.getElementsByTagName("place");
for (int i = 0; i < nodeList.getLength(); i++)</pre>
Node node = nodeList.item(i):
if (node.getNodeType() == Node.ELEMENT_NODE) {
Element = (Element) node;
stringBuilder.append("\nName: ").append(getValue("name", element));
stringBuilder.append("\nLatitude: ").append(getValue("lat", element));
stringBuilder.append("\nLongitude: ").append(getValue("long", element));
stringBuilder.append("\nTemperature: ").append(getValue("temperature", element));
stringBuilder.append("\nHumidity: ").append(getValue("humidity", element));
stringBuilder.append("\n----");
}
display.setText(stringBuilder.toString());
}catch (Exception e){
e.printStackTrace();
Toast.makeText(MainActivity.this,"Error Parsing XML",Toast.LENGTH_LONG).show();
}
}
```

```
public void parsejson(View V){
String json;
StringBuilder stringBuilder = new StringBuilder();
InputStream is = getAssets().open("city.json");
int size = is.available();
byte[] buffer = new byte[size];
is.read(buffer);
ison = new String(buffer, StandardCharsets.UTF 8);
ISONArray isonArray = new ISONArray(ison);
stringBuilder.append("JSON DATA");
stringBuilder.append("\n----");
for (int i = 0; i < jsonArray.length(); i++) {
JSONObject jsonObject = jsonArray.getJSONObject(i);
stringBuilder.append("\nName: ").append(jsonObject.getString("name"));
stringBuilder.append("\nLatitude: ").append(jsonObject.getString("lat"));
stringBuilder.append("\nLongitude: ").append(jsonObject.getString("long"));
stringBuilder.append("\nTemperature: ").append(jsonObject.getString("temperature"));
stringBuilder.append("\nHumidity: ").append(jsonObject.getString("humidity"));
stringBuilder.append("\n----");
display.setText(stringBuilder.toString());
is.close();
catch (Exception e){
e.printStackTrace();
Toast.makeText(MainActivity.this,"Error in reading",Toast.LENGTH_LONG).show();
}
}
private String getValue(String tag, Element element)
return element.getElementsByTagName(tag).item(0).getChildNodes().item(0).getNodeValue();
}
}
```