

## Assignment:-12

**Q.12 Create an application that parse XML File?**

**Ans :- The Code for the above Program**

**MainActivity.java**

```
package com.example.rakes.parse;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.widget.TextView;
import android.widget.Toast;
import java.io.InputStream;
import javax.xml.parsers.DocumentBuilder;
import javax.xml.parsers.DocumentBuilderFactory;
import org.w3c.dom.Document;
import org.w3c.dom.Element;
import org.w3c.dom.Node;
import org.w3c.dom.NodeList;

public class MainActivity extends AppCompatActivity {
    TextView tv1;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        tv1 = (TextView)findViewById(R.id.textView1);
        try {
            InputStream is = getAssets().open("File.Xml");
            DocumentBuilderFactory dbFactory = DocumentBuilderFactory.newInstance();
            DocumentBuilder dBuilder = dbFactory.newDocumentBuilder();
            Document doc = dBuilder.parse(is);
            Element element=doc.getDocumentElement();
            element.normalize();
            NodeList nList = doc.getElementsByTagName("employee");
            for (int i=0; i<nList.getLength(); i++) {
                Node node = nList.item(i);
                if (node.getNodeType() == Node.ELEMENT_NODE) {
                    Element element2 = (Element) node;
                    tv1.setText(tv1.getText()+"\nName : " + getValue("name", element2)+"\n");
                    tv1.setText(tv1.getText()+"Salary : " + getValue("salary", element2)+"\n");
                    tv1.setText(tv1.getText()+"-----");
                }
            }
            //end of for loop

        } catch (Exception e) {
            e.printStackTrace();
            Toast.makeText(getApplicationContext(),e.toString(),2000).show();
        }
    }
}
```

```
    } //catch
} //onCreate
private static String getValue(String tag, Element element) {
    NodeList nodeList = element.getElementsByTagName(tag).item(0).getChildNodes();
    Node node = (Node) nodeList.item(0);
    return node.getNodeValue();
}

} //Class
```

**File.xml**

```
<?xml version="1.0"?>
<records>
  <employee>
    <name>Hiren</name>
    <salary>55000</salary>
  </employee>
  <employee>
    <name>Niren</name>
    <salary>60000</salary>
  </employee>
</records>
```

**OutPut:-**