## Web Technologies Lab Assignment -6

Write XML files using the following DTD or Schema. Validate each XML file using the online validator tool at *http://www.xmlvalidation.com/*.

1.

2.

```
<!DOCTYPE NEWSPAPER [</pre>
<!ELEMENT NEWSPAPER (ARTICLE+)>
<!ELEMENT ARTICLE (HEADLINE, BYLINE, LEAD, BODY, NOTES)>
<!ELEMENT HEADLINE (#PCDATA)>
<!ELEMENT BYLINE (#PCDATA)>
<!ELEMENT LEAD (#PCDATA)>
<!ELEMENT BODY (#PCDATA)>
<!ELEMENT NOTES (#PCDATA)>
<!ATTLIST ARTICLE AUTHOR CDATA #REQUIRED>
<!ATTLIST ARTICLE EDITOR CDATA #IMPLIED>
<!ATTLIST ARTICLE DATE CDATA #IMPLIED>
<!ATTLIST ARTICLE EDITION CDATA #IMPLIED>
]>
<!ELEMENT collection (description,recipe*)>
<!ELEMENT description ANY>
<!ELEMENT recipe (title,ingredient*,preparation,comment?,nutrition)>
<!ELEMENT title (#PCDATA)>
<!ELEMENT ingredient (ingredient*,preparation)?>
<!ATTLIST ingredient name CDATA #REQUIRED
         amount CDATA #IMPLIED
         unit CDATA #IMPLIED>
<!ELEMENT preparation (step*)>
<!ELEMENT step (#PCDATA)>
<!ELEMENT comment (#PCDATA)>
<!ELEMENT nutrition EMPTY>
<!ATTLIST nutrition protein CDATA #REQUIRED
        carbohydrates CDATA #REQUIRED
        fat CDATA #REQUIRED
        calories CDATA #REQUIRED
        alcohol CDATA #IMPLIED>
```

## 3.

```
<?xml version="1.0"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema" >
<xs:element name="Employee_Info" type="EmployeeInfoType" />
<xs:complexType name="EmployeeInfoType">
<xs:sequence>
<xs:element ref="Employee" minOccurs="0" maxOccurs="unbounded"</pre>
/>
</xs:sequence>
</xs:complexType>
<xs:element name="Employee" type="EmployeeType" />
<xs:complexType name="EmployeeType">
<xs:sequence >
<xs:element ref="Name" />
<xs:element ref="Department" />
<xs:element ref="Telephone" />
<xs:element ref="Email" />
</xs:sequence>
<xs:attribute name="Employee_Number" type="xs:int" use="required"/>
</xs:complexType>
<xs:element name="Name" type="xs:string" />
<xs:element name="Department" type="xs:string" />
<xs:element name="Telephone" type="xs:string" />
<xs:element name="Email" type="xs:string" />
</xs:schema>
```