

**Name : Nisarg Amlani .k.**

**Roll : CE001**

**ID : 22ceueg082**

**Lab : 3**

---

### **=>Library.xml File**

```
<?xml version="1.0" encoding="utf-8" ?>
<library>
  <categories id="cat-1">
    <name>
      Fiction
    </name>
    <books>
      <book id="b-001">
        <title>1984</title>
        <bookAuthor id="A101">George Orwell</bookAuthor>
        <publication year="1949"/>
        <price currency="USD">9.99</price>
      </book>
      <book id="b-002">
        <title>To Kill a Mockingbird</title>
        <bookAuthor id="A102">Harper Lee</bookAuthor>
        <publication year="1960"/>
        <price currency="USD">7.99</price>
      </book>
    </books>
  </categories>
  <categories id="cat-2">
    <name>
      Science
    </name>
    <books>
      <book id="b-003">
        <title>A Brief History of Time</title>
        <bookAuthor id="A103">Stephen Hawking</bookAuthor>
```



```

<xs:sequence>
  <xs:element name="title" type="xs:string"/>
  <xs:element name="bookAuthor">
    <xs:complexType>
      <xs:simpleContent>
        <xs:extension base="xs:string">
          <xs:attribute name="id" type="xs:string"
            use="required"/>
        </xs:extension>
      </xs:simpleContent>
    </xs:complexType>
  </xs:element>
  <xs:element name="publication">
    <xs:complexType>
      <xs:attribute name="year" type="xs:int" use="required"/>
    </xs:complexType>
  </xs:element>
  <xs:element name="price">
    <xs:complexType>
      <xs:simpleContent>
        <xs:extension base="xs:decimal">
          <xs:attribute name="currency" type="xs:string"
            use="required"/>
        </xs:extension>
      </xs:simpleContent>
    </xs:complexType>
  </xs:element>
</xs:sequence>
<xs:attribute name="id" type="xs:string" use="required"/>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
<xs:attribute name="id" type="xs:string" use="required"/>
</xs:complexType>
</xs:element>
<!-- Define the "authors" element -->
<xs:element name="authors">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="author" maxOccurs="unbounded">
        <xs:complexType>

```

```
        <xs:sequence>
            <xs:element name="authorName" type="xs:string"/>
            <xs:element name="nationality" type="xs:string"/>
        </xs:sequence>
        <xs:attribute name="id" type="xs:string" use="required"/>
    </xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:schema>
```

## Validation Output :

Document Valid