

Practical No: 14

AIM: *Design XML Schema and Corresponding XSD Document.*

SOURCE CODE:

XML:

```
<?xml version="1.0" encoding="UTF-8"?>
<class xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:noNamespaceSchemaLocation="A14.xsd">

  <student>
    <name>Kunal</name>
    <age>27</age>
    <marks>700</marks>
  </student>
  <student>
    <name>Diya</name>
    <age>25</age>
    <marks>650</marks>
  </student>
  <student>
    <name>Meera</name>
    <age>25</age>
    <marks>678</marks>
  </student>
  <student>
    <name>Naman</name>
    <age>22</age>
    <marks>578</marks>
  </student>
</class>
```

XSD:

```
<?xml version="1.0"?>
<!--
```

To change this license header, choose License Headers in Project Properties.
To change this template file, choose Tools | Templates and open the template in the editor.

```
-->
```

```

<xs:schema version="1.0"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  elementFormDefault="qualified">
  <xs:element name="class">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="student" maxOccurs="unbounded" minOccurs="0">
          <xs:complexType>
            <xs:sequence>
              <xs:element name="name" type="xs:string" />
              <xs:element name="age" type="xs:int" />
              <xs:element name="marks" type="xs:int" />
              <!--<xs:element
                name="color" type="xs:string" default="red"/>
                <xs:element name="color" type="xs:string" fixed="red"/>
                <xs:element name="dateborn" type="xs:date"/>
                <price>-999.5230</price>
              -->
            </xs:sequence>
          </xs:complexType>
        </xs:element>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>

```

OUTPUT:

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```

▼<class xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="A14.xsd">
  ▼<student>
    <name>Kunal</name>
    <age>27</age>
    <marks>700</marks>
  </student>
  ▼<student>
    <name>Diya</name>
    <age>25</age>
    <marks>650</marks>
  </student>
  ▼<student>
    <name>Meera</name>
    <age>25</age>
    <marks>678</marks>
  </student>
  ▼<student>
    <name>Naman</name>
    <age>22</age>
    <marks>578</marks>
  </student>
</class>

```