Name – Omkar Arun Shinde

PRN No. – 122B1B258

**Assignment No. 03**

**Problem Statement -** Write a XML schema to describe and validate the XML data.

**Code –**

1. **Omkar3.xsd**

<?xml version="1.0" encoding="utf-8"?>

<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">

<xs:element name="StudentInfo">

<xs:complexType>

<xs:sequence>

<xs:element name="Student">

<xs:complexType>

<xs:sequence>

<xs:element name="Name" type="xs:string"/>

<xs:element name="PRN\_No" type="xs:string"/>

<xs:element name="Branch" type="xs:string"/>

<xs:element name="Year" type="xs:string"/>

<xs:element name="Marks">

<xs:complexType>

<xs:sequence>

<xs:element name="I\_Sem\_CGPA" type="xs:decimal"/>

<xs:element name="II\_Sem\_CGPA" type="xs:decimal"/>

<xs:element name="III\_Sem\_CGPA" type="xs:decimal"/>

<xs:element name="IV\_Sem\_CGPA" type="xs:decimal"/>

<xs:element name="V\_Sem\_CGPA" type="xs:decimal"/>

</xs:sequence>

</xs:complexType>

</xs:element>

<xs:element name="Backlogs" type="xs:integer"/>

<xs:element name="Skills">

<xs:complexType>

<xs:sequence>

<xs:element name="Skill" type="xs:string" maxOccurs="unbounded"/>

</xs:sequence>

</xs:complexType>

</xs:element>

<xs:element name="PlacementStatus" type="xs:string"/>

</xs:sequence>

</xs:complexType>

</xs:element>

</xs:sequence>

</xs:complexType>

</xs:element>

</xs:schema>

1. **Omkar3.xml**

<?xml version="1.0" encoding="utf-8"?>

<StudentInfo xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

xsi:noNamespaceSchemaLocation="Asm3258.xsd">

<Student>

<Name>Omkar Arun Shinde</Name>

<PRN\_No>122B1B258</PRN\_No>

<Branch>Computer Science</Branch>

<Year>Third Year</Year>

<Marks>

<I\_Sem\_CGPA>8.95</I\_Sem\_CGPA>

<II\_Sem\_CGPA>9.22</II\_Sem\_CGPA>

<III\_Sem\_CGPA>9.22</III\_Sem\_CGPA>

<IV\_Sem\_CGPA>9.16</IV\_Sem\_CGPA>

<V\_Sem\_CGPA>9.23</V\_Sem\_CGPA>

</Marks>

<Backlogs>0</Backlogs>

<Skills>

<Skill>Python</Skill>

<Skill>Machine Learning</Skill>

<Skill>Data Science</Skill>

</Skills>

<PlacementStatus>Eligible</PlacementStatus>

</Student>

</StudentInfo>

**Output:** 

