pre-lab

- 1. XMI- Extensible Markup language
- 2. DTD Document Type Definition
- 3. XSD XML schema Definition
- 4. Rules for well formed AML
 - 1. It must begin with AML Declaration
 - 2. It must have unique root element
 - 3. All start tags of XML document must match end tags
 - 4. Case sensitive
 - 5. All elements must be closed
 - 6. All elements must be properly nested
 - 7. All attribute values must be quoted
 - 8. XML entities must be used for special characters.
- 5. a) XML Naming Rules

 RML elements must following these
 naming rules:
 - -> Element names are case Jensitive
 - -> Element names must start with a letter or underscore.
 - -> Element names cannot start with the letters XMI (or XML, or XMI, etc)
 - -) Element names can contain letters, digits, hyphers, underscoles and periods
 - Hement names lannot contain spaces

XML Element IIII An XMI dement is everything from (including) the element's start tag to (including) The element's end tag (price > 29.99 dprice > An element can contain text attributes THE THE LA other elements of or mix of the above the state of the board of the state of the XML attributes () It will provide additional information about the element. d) <! DOCTYPES 12009 10000 links free alle uplus and DID Internal <! DOCTYPE L'root-element-name>[<! ELEMENT element-name (child)> 1> rule was a continue as also (a dia all hi) External DTD THE HUNDER CE 1. private < ! DOCTYPE root-element-name SYSTEM dtd file name > 2. public prince I will have by <! DOCTYPE root-element-name PUBLIC "link for didfile"> ILLANDS EN LO e) «I ELEMENT > INTO THE REPORT OF THE PROPERTY OF THE PROPERT CI ELEMENT element-name (child) or element-nome (child 1, child 2.....) >

- C! ATTLIST element-name attribute-name !!! f) CDATA # IMPLIED >
- simpleType 9) Il allows you to have text-based

elements. It contains lesser attributes, child elements and cannot be left empty.

h) complexType

It allows you to hold multiple attributes and elements. It can contain additional sub elements and can be left empty-

IN RIPO

- 6. a) CDATA character Data- string which cannot be parsed by XMI parsez (NO entities allowed)
 - b) PCDATA 1901s INTION LA parseable character Data which can be parsed by XMI parser (Entities allowed)
- c) Default value If no value is given to the attribute then default value is considered as attribu value The base of the street is
 - d1 # R QUIRED There is no default value for this attribute but value must be assigned
 - e) # IMPLIED There is no default value for this attribute Scanned by CamScanner

and that the attribute is optional

i) # FIXED

The value must be the value provided.

The value part represents the actual value.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

SUBJECT CODE: 19CS2107

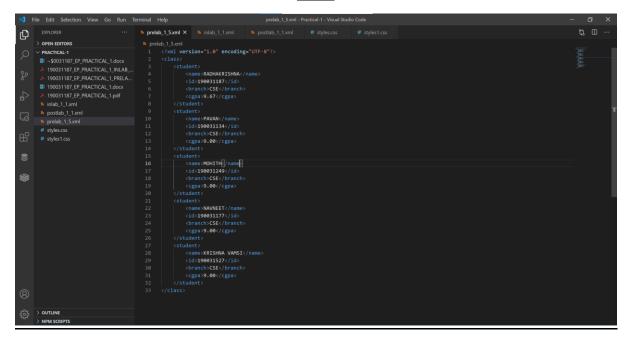
ENTERPRISE PROGRAMMING WORKBOOK

XML #1	
Date of the Session://	Time of the Session:
Prerequisite:	
☐ Basic understanding of HTML tags.	
☐ Differences between HTML and XML and	its uses.
☐ Idea on tags of XML.	
Pre-Lab Task:	
7) As you're in the very beginning stage document.Write an XML to accept stu CGPA] for minimum 5 students. <class></class>	
<student></student>	
<name> ABC </name>	
<id> 001 </id>	
<cgpa> 9 </cgpa>	
<student></student>	

Prelab.xml

```
<student>
       <name>MOHITH</name>
       <id>190031249</id>
       <branch>CSE</branch>
       <cgpa>9.00</cgpa>
   </student>
   <student>
       <name>NAVNEET</name>
       <id>190031177</id>
       <branch>CSE</branch>
       <cgpa>9.00</cgpa>
   <student>
       <name>KRISHNA VAMSI
       <id>190031527</id>
       <branch>CSE</branch>
       <cgpa>9.00</cgpa>
   </student>
</class>
```

CODE



OUTPUT

190031187

NERELLA VENKATA RADHAKRISHNA

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

```
This XML file does not appear to h

*class>
*cstudent>
cname>RADHAKRISHNA</name>
cid>190831187</id>
chranch>CSE</br>
cstudent>
cspa>0.67</gpa>
c/student>
cspa>0.68</gpa>
c/student>
cspa>0.69</gpa>
c/student>
cspa>0.69</gpa>
c/student>
cspa>0.69</gpa>
c/student>
cspa>0.69</gpa>
c/student>
cspa>0.69</gpa>
c/student>
cspa>0.69</gpa>
```

In Lab Task:

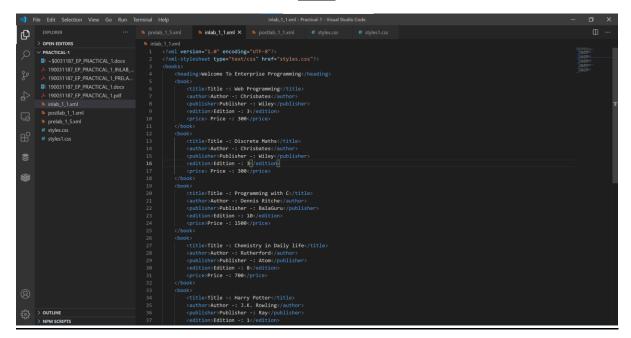
 Write a program for Books store, and the XML file is created that contains the information about five books and displaying the XML file using CSS.
 <books>

Inlab.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/css" href="styles.css"?>
<books>
   <heading>Welcome To Enterprise Programming</heading>
   <book>
       <title>Title -: Web Programming</title>
       <author>Author -: Chrisbates
       <publisher>Publisher -: Wiley</publisher>
       <edition>Edition -: 3</edition>
       <price> Price -: 300</price>
   </book>
    <book>
       <title>Title -: Discrete Maths</title>
       <author>Author -: Chrisbates
       <publisher>Publisher -: Wiley</publisher>
       <edition>Edition -: 3</edition>
       <price> Price -: 300</price>
   </book>
   <book>
       <title>Title -: Programming with C</title>
       <author>Author -: Dennis Ritche</author>
       <publisher>Publisher -: BalaGuru</publisher>
       <edition>Edition -: 10</edition>
```

```
<price>Price -: 1500</price>
   </book>
   <book>
       <title>Title -: Chemistry in Daily life</title>
       <author>Author -: Rutherford</author>
       <publisher>Publisher -: Atom
       <edition>Edition -: 8</edition>
       <price>Price -: 700</price>
   </book>
   <book>
       <title>Title -: Harry Potter</title>
       <author>Author -: J.K. Rowling</author>
       <publisher>Publisher -: Ray</publisher>
       <edition>Edition -: 1</edition>
       <price>Price -: 1500</price>
   </book>
</books>
```

CODE

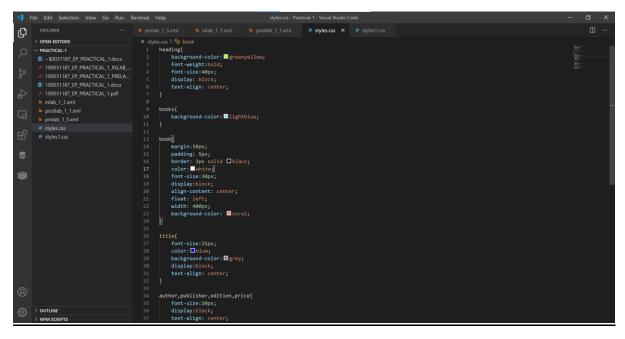


styles.css

```
heading{
    background-color:greenyellow;
    font-weight:bold;
    font-size:40px;
    display: block;
    text-align: center;
}
```

```
background-color:lightblue;
book{
    margin:10px;
    padding: 5px;
    border: 3px solid black;
    color:white;
    font-size:30px;
    display:block;
    align-content: center;
    float: left;
    width: 400px;
    background-color: coral;
title{
    font-size:25px;
    color:blue;
    background-color:grey;
    display:block;
    text-align: center;
author,publisher,edition,price{
    font-size:20px;
    display:block;
    text-align: center;
```

Css CODE



<u>OUTPUT</u>

Welcome To Enterprise Programming

Title -: Web Programming
Author -: Chrisbates
Publisher -: Wiley
Edition -: 3
Price -: 300

Title -: Discrete Maths

Title -: Programming with C

Author -: Dennis Ritche Publisher -: BalaGuru Edition -: 10 Price -: 1500

Title -: Chemistry in Daily life

Author -: Rutherford Publisher -: Atom Edition -: 8 Price -: 700

Title -: Harry Potter
Author -: J.K. Rowling
Publisher -: Ray
Edition -: 1
Price -: 1500

Post Lab Task:

Write a program for Books store, and the XML file is created that contains the information about five books of different categories and displaying the XML file using CSS.

- Action and Adventure.
- ✓ Classics.
- ✓ Comic Book or Graphic Novel.
- ✓ Detective and Mystery.
- ✓ Fantasy.
- ✓ Historical Fiction.
- ✓ Horror.
- ✓ Literary Fiction.

Postlab.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/css" href="styles1.css"?>
<books>
   <heading>Action and Adventure</heading>
   <book>
       <title >Title -: Sandstorm</title>
       <author>Author -: James Rollins</author>
        <publisher>Publisher -: Map of Bones
        <price> Price -: 700</price>
   </book>
   <book>
        <title >Title -: The Call of the Wild</title>
       <author>Author -: Jack London</author>
       <publisher>Publisher -: Santa Clara Valley</publisher>
        <price> Price -: 900</price>
   </book>
   <heading>Classics</heading>
   <book>
       <title >Title -: Lord of the Flies</title>
       <author>Author -: William Golding</author>
        <publisher>Publisher -: Faber and Faber</publisher>
        <price> Price -: 600</price>
   </book>
   <book>
        <title >Title -: A Tale of Two Cities </title>
       <author>Author -: Charles Dickens </author>
       <publisher>Publisher -: Chapman and Hall </publisher>
        <price> Price -: 500</price>
   </book>
   <heading>Detective and Mystery.</heading>
   <book>
        <title >Title -: Murder on the Orient Express</title>
       <author>Author -: Agatha Christie </author>
```

```
<publisher>Publisher -:Collins Crime Club </publisher>
       <price> Price -: 1000</price>
   </book>
   <book>
       <title >Title -: The Murder of Roger Ackroyd</title>
       <author>Author -: Agatha Christie </author>
       <publisher>Publisher -: HarperCollins </publisher>
       <price> Price -: 900</price>
   <heading>Historical Fiction.</heading>
   <book>
       <title >Title -: Wolf Hall </title>
       <author>Author -: Hilary Mantel </author>
       <publisher>Publisher -: HarperCollins </publisher>
       <price> Price -: 700</price>
   </book>
   <book>
       <title >Title -: The Pillars of the Earth</title>
       <author>Author -: Ken Follett </author>
       <publisher>Publisher -: The Evening and the Morning </publisher>
       <price> Price -: 900</price>
   </book>
   <heading>Horror.
   <book>
       <title >Title -: The Haunting of Hill House </title>
       <author>Author -: Shirley Jackson </author>
       <publisher>Publisher -: Shirley Jackson </publisher>
       <price> Price -: 800</price>
   </book>
   <book>
       <title >Title -: House of Leaves </title>
       <author>Author -: Mark Z. Danielewski </author>
       <publisher>Publisher -: The Whalestoe Letters </publisher>
       <price> Price -: 1100</price>
   </book>
</books>
```

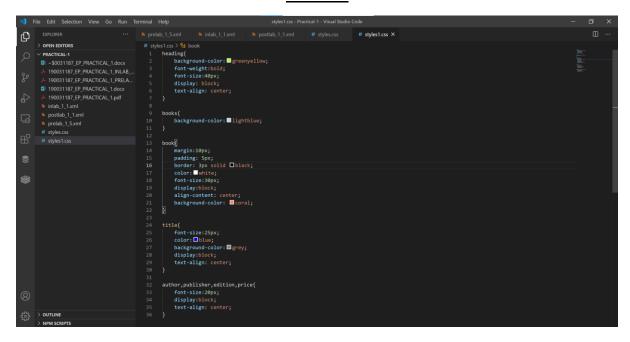
CODE

styles1.css

```
heading{
    background-color:greenyellow;
    font-weight:bold;
    font-size:40px;
    display: block;
    text-align: center;
books{
    background-color:lightblue;
book{
    margin:10px;
    padding: 5px;
    border: 3px solid black;
    color:white;
    font-size:30px;
    display:block;
    align-content: center;
    background-color: coral;
title{
    font-size:25px;
    color:blue;
    background-color:grey;
    display:block;
    text-align: center;
author,publisher,edition,price{
   font-size:20px;
```

```
display:block;
  text-align: center;
}
```

Css CODE



OUTPUT

