19CS2107 ENTERPRISE PROGRAMMING

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**SUBJECT CODE: 19CS2107**

**ENTERPRISE PROGRAMMING WORKBOOK**

**XML #1**

**Date of the Session: \_\_\_/\_\_\_/\_\_\_** **Time of the Session: \_\_\_\_\_to\_\_\_\_\_\_**

**Prerequisite:**

* **Basic understanding of HTML tags.**
* **Differences between HTML and XML and its uses.**
* **Idea on tags of XML.**

**Pre-Lab Task:**

1. What is the full form of XML?
2. What if the full form of DTD?

3)What is the full form of XSD?

4)What are the rules to be followed to create Well Formed XML Documents.



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5)Write down the functionalities and syntax of the below mentioned.

1. XML Naming Rules
2. XML Element
3. XML attributes

d) <! DOCTYPE >

e) <! ELEMENT >

f) <! ATTLIST >

g) simpleType

h) complexType



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1. Write down the functionalities of the below mentioned in DTD - Attributes
   1. CDATA
   2. PCDATA
   3. Default value
   4. #REQUIRED
   5. #IMPLIED
   6. #FIXED *value*



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1. As you’re in the very beginning stage of learning how to create a XML document.

Write an XML to accept student details [Name, ID, Branch and CGPA] for minimum 5 students.

<class>

<student>

<name> ABC </name>

<id> 001 </id>

<branch> IT </branch>

<cgpa> 9 </cgpa>

</student>

<student>

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**In Lab Task:**

* 1. 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>

    <heading>Welcome To Enterprise Programming </heading>

    <book>

        <title>Title -: Web Programming</title>

        <author>Author -: Chrisbates</author>

        <publisher>Publisher -: Wiley</publisher>

        <edition>Edition -: 3</edition>

        <price> Price -: 300</price>

    </book>

….

….

<books>

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**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.

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**2.XML Validation #2**

**Date of the Session: \_\_\_/\_\_\_/\_\_\_** **Time of the Session: \_\_\_\_\_to\_\_\_\_\_\_**

**Prerequisite:**

* **Basic idea on XML Tags.**
* **Designing of Well-formed XML documents**
* **Knowledge on XML document validation against DTD & XSD**

**Pre-Lab Task:**

**Problem Description**

1. Write a program for Students information, and the XML file is created that contains **Student [id, regno, name, avg, dob, time, mobileno, distinction**], the information about five students of different categories and displaying the XML file.

Sample Template:

<students\_info>

<student>

<regno>170024</regno>

<name>ABC</name>

<avg>92</avg>

<dob>15-08-1992</dob>

<time></time>

<mobile no="9849984900"/>

<distinction>YES</distinction>

</student>

…

…

</students\_info>



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**In Lab Task:**

1. Create a DTD for Student information and the XML file contains,

**Student [id, regno, name, avg, dob, time, mobileno, distinction**], the information about five students of different categories and displaying the XML file.for minimum 5 students.

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**Post Lab Task**

1. Create a **XSD** for Student information and the XML file contains,

**Student [id, regno, name, avg, dob, time, mobileno, distinction**], the information about five students of different categories and displaying the XML file.for minimum 5 students.

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**Writing space for the Problem:(For Student’s use only)**

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**XSLT #3**

**Date of the Session: \_\_\_/\_\_\_/\_\_\_** **Time of the Session: \_\_\_\_\_to\_\_\_\_\_\_**

**Prerequisite:**

* **General Idea on HTML Tags.**
* **Idea on XML documents and Tags**
* **Basic idea on XML** Stylesheet Language Transformations

**Pre-Lab Task:**

1. Create XML document which store the information about Library/Bookstore. more than 5 books.

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**In Lab Task:**

1.Create XML document which store the information about Library/Bookstore. more than 5

books.to transform XML documents into other formats (like transforming XML into HTML).

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**Post Lab Task:**

1. Creating the XML file that contains the information about five students and displaying the XML file using XSLT.

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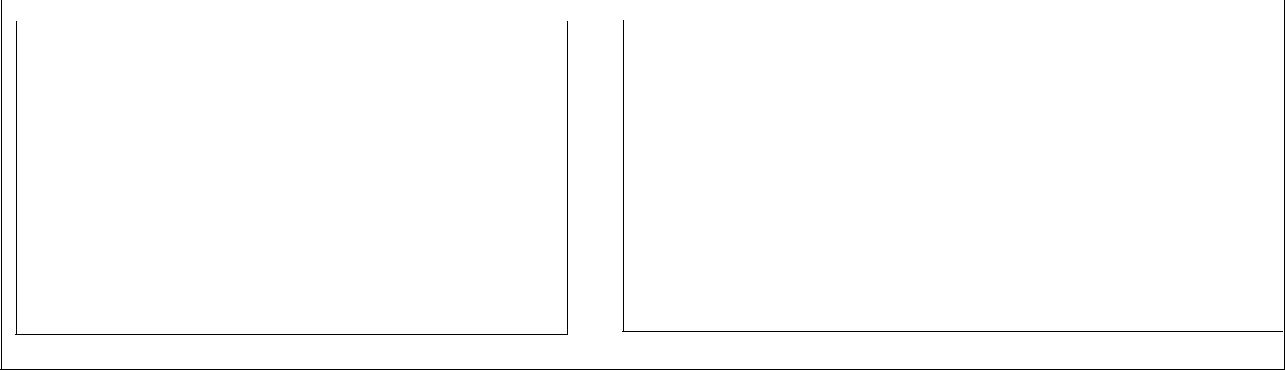




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