KARPAGAMACADEMY OF HIGHER EDUCATION

(Deemed University Established Under Section 3 of UGC Act 1956)

Coimbatore - 641021.

(For the candidates admitted from 2018 onwards)

DEPARTMENT OF COMPUTER SCIENCE, CA & IT

SUBJECT : **XML PROGRAMMING - PRACTICAL**

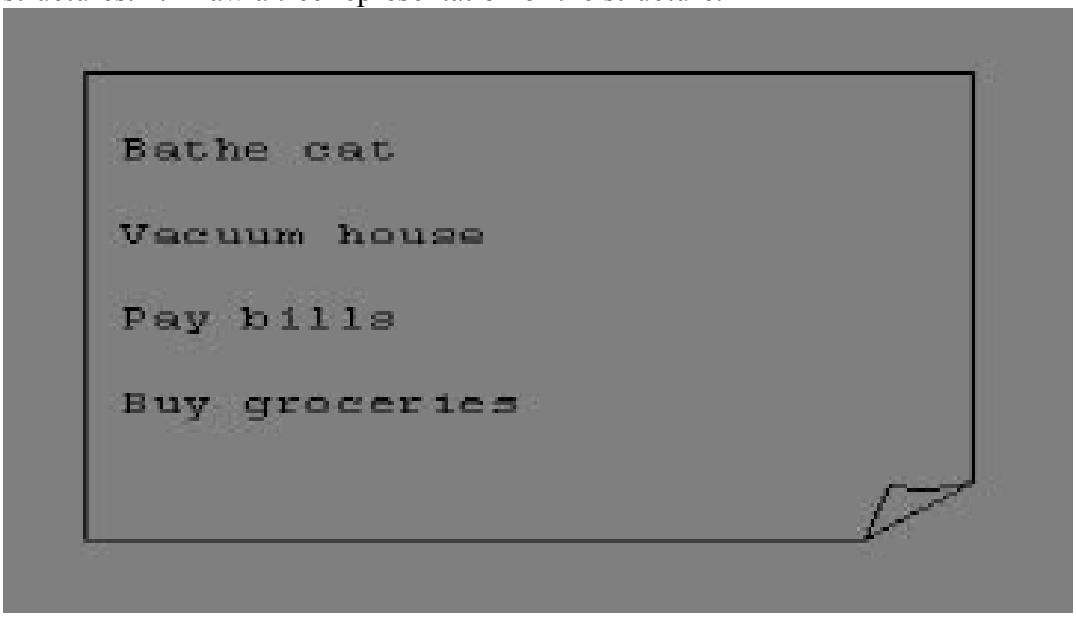
SEMESTER : **IV** **L T P C**

SUBJECT CODE: **18CSU414B** **CLASS** : **II B.Sc.CS** **4 0 0 4**

Instruction Hours / week:L: 0 T: 0 P: 3 **Marks:**Int : **40** Ext : **60** Total: **100**

Exercise #1 – Information Structure

In this exercise, student will practice identifying the structure of an information object. For the sample document provided below: Label the information structures you see, including containing structures. 1. Draw a tree representation of the structure.



Exercise 2# Deconstructing an XML Document

In this exercise, student will practice identifying the explicit structure within an XML document. In a sense, this is the reverse of what you did in Exercise #1. For the sample XML markup below, create a document-like representation (or a simple drawing) for the content contained within the XML tags:

<book>
<coverInfo>
<title>The XML Handbook</title>
<author>Charles F. Goldfarb</author>
<author>Paul Prescod</author>
<edition>Second</edition>
<description>The definitive XML resource: applications, products, and technologies. Revised and expanded—over 600 new pages. </description>
</coverInfo></book>

Exercise #3 – Creating XML Markup
In this exercise, create some XML markup based on the tree representation from Exercise #1 above, and the content from the original sample document.

Exercise #4 – Well-Formedness
This exercise checks your understanding of the constraints for well-formedness. Are the following document instances well-formed? Explain any NO answers.
<list><title>The first list</title><item>An item</list>
<item>An item</item><item>Another item</item>
<para>Bathing a cat is a <emph>relatively</emph> easy task as long as the cat is willing.</para>
<bibl><title>How to Bathe a Cat<author></title>Merlin Bauer<author></bibl>

Exercise #5-Well Formedness
This exercise is a bit more challenging than the previous example. Here is a fragment of an XML document instance. Identify all the places where it fails to match the constraints for well-formedness.
<PROCEDURE><TITLE>How to Bathe a Cat</TITLE>
<OVERVIEW> <WARNING>This procedure tells you how to bathe a cat.
<WARNING></OVERVIEW>Cats don't like to take baths. You could get hurt doing this. Be sure to obtain all the required protective gear before you start.
</WARNING><EQUIPEMENT><ITEM>Hockey Mask <ITEM>Padded Full-body Kevlar Armor</ITEM><ITEM>Tub full of warm water</ITEM><ITEM>Towels </ITEM><ITEM>First Aid kit</ITEM><ITEM>Cat Shampoo</ITEM><EQUIPMENT><INSTRUCTIONS><STEP>
Locate the cat, who by now is hiding under the bed.</STEP><STEP>Place the cat in the tub of water.</STEP><ITEM>Using the First Aid kit, repair the damage to your head and arms.</STEP><STEP>Place the cat back in the tub and hold it down.</STEP><STEP>Wash it really fast, then make an effort to dry it with the towels.</STEP><STEP>Decide not to do this again. </STEP></INSTRUCTIONS>

Excerise #6 - Show a menu in XML.

Excerise #7 - Demonstrate transformation of XML document using CSS.

Excerise #8 - Demonstrate transformation of XML document using XSLT.

Excerise #9 - Display XML information in tree structure format

Excerise #10 - Generate XML program to integrate XML in web application.

Excerise #11 - Navigate the records in XML file.

Excerise #12 - Generate an XML program to show the functions of CDATA.

Excerise #13 - Write a program to generate XML file on the server.

Excerise #14 - Write a program to load a text file into a div element using xml http.

Excerise #15 - Write a program to list a data form an XML file using xml http.