DEPARTMENT OF INFORMATION TECHNOLOGY, NITK

V Sem IT – WTA Lab [IT302]

Assignment 5 (XML)

1. XML is used to create an online booklet for concert ticket sales consisting of ads for different concerts being held. Each ad gives the name of the band, genre (pop, classical, rock etc...), performers info (first name, last name and role in the band), dates and times of the show (allow multiple), place's information (venue name, address, contact number(if any)), ticket price and type if applicable (e.g. gold, silver, ordinary for classical concert shows), any discounts if offered(only some concerts offer this) and seller's info (name, email, phone number and address). Store multiple instances of the record root element with data such that your display is generated based on filtering of appropriate data (**IMP**: <u>each record should be populated with different values such that relevant data is selected according to the requirements of questions b & c)</u> of the `concert_ad` element.

   a. Display the raw XML document to show its structure.

   b. Write a CSS style sheet for the XML document to display the data stored. For e.g. the display of each individual item should be in the following pattern:

      Example:

      Name   **Place Information**
      Date and time of the concert   (bold, blue)

      Genre   *(italised, maroon)*
                     Name of Performer(s) (separated by a tab space)
                     Ticket Price according to type   (normal, orange)

      Seller's Information   (bold, black)

   c. Write an XSLT style sheet to retrieve data according to the following requirements:
      - Display all the concert ads in the form of a table with their name, genre and place information info such that concerts of genre "Pop" are highlighted in green, "Classical" in yellow, "Instrumental" in blue, and so on.
      - Retrieve all information about concerts with less than Rs. 100 per ticket to be held in and around Mangalore in the month of April. Also if any discount is offered for a concert, highlight that concert in a different colour. Display all retrieved data in the form of a borderless table, sorted alphabetically. Maintain proper cellpadding and cellspacing to create a well-designed display.