

	<p align="center">GLS Institute of Computer Application 0301406: Practical on XML Practical Assignment 2 Assignment Date: 20/12/2023 Submission Date: 18/01/2024</p>
1.	<p>Create an XML document for storing personal information about student where it contains the following data: Personal Info(Roll no, Name, Address, Mobile, DOB, Age, Qualification) Create An External DTD for the above XML document.</p>
2.	<p>Create an XML document email where it contain the following data: Email(message) as an element and Message(from, to, subject)as an attribute. Create a DTD for the following XML document.</p>
3.	<p>Create XML document OrderDetail where it contains the following data: Order_Detail(OrderNumber, Orde rate, OrderAmount,ItemPrice, ItemName, Quantity) Create DTD declaration for OrderDetail where</p> <ul style="list-style-type: none"> • OrderDate will appear as an attribute to OrderNumber • ItemName should come at least one time. • Order Amount should come only once. • Item Price and Quantity can come zero or more times.
4.	<p>Create XML document for Student where it contains the following data: Student Name, Personal Info (Address, Birthdate,Gender, Mobile No, Address) ,Result(Total, Percentage, Grade) Create External DTD declaration for Student where</p> <ul style="list-style-type: none"> • Gender has only two choices Male and Female as an element. • Grade element should have only one of these grade element (Pass, First, Dist., Second, Fail)
5.	<p>Create an XML document Books where it contains the following data : Books (book (title) as an attribute , author , year , publisher). Create An External DTD for the above XML document where</p> <ul style="list-style-type: none"> • Elements should be in sequence.

	<ul style="list-style-type: none"> Attribute title should have only two values i.e XML or DCN
6.	<p>Create an XML document Student where it contains the following data :</p> <p>Student(Name (fname & Lname) , ID , Plan (courses)). In courses element take (year) as an attribute and (course) as an sub-element . And Course has name , shortName , record as its sub element. And again record has its sub element Grade , date.</p> <p>Create An External DTD for the above XML document where :</p> <ul style="list-style-type: none"> Courses element can zero or more course. Year attribute must appear in the element. Record element should appear zero or more times.
7.	<p>Create an XML document Email where it contains the following data :</p> <p>Email (from , to ,content (person , exercises(exercise (topic , description)) , course)).</p> <p>Create An External DTD for the above XML document where</p> <ul style="list-style-type: none"> Content element of email should be mixed content. Exercises can have multiple exercise element.
8.	<p>Create an XML document Student where it contains the following data :</p> <p>Student (Roll_no , Name , Marks , Rank)</p> <p>Create An External DTD for the above XML document where</p> <ul style="list-style-type: none"> Marks element has web technologies , XML , J2EE ,NS as a sub-element Marks can have only the above elements.
9.	<p>Create an XML document Letter where it contains the following data :</p> <p>Letter (contact (name , address , city ,pin ,state , flag) , salutation , paragraph , closing , signature) . The “contact “ element has an attribute “type” where it will declare type of person (eg : manager , officer etc as a value) .</p> <p>Create An External DTD for the above XML document where</p> <ul style="list-style-type: none"> contact should come atleast once. flag element should an empty element “flag” element has an attribute “gender” where it will declare as a male or female as a value and male as a default value. The attribute type has a fixed value “sender”
10.	<p>Create an XML document Contacts where it contains the following data :</p> <p>Contacts(contact(name,email), contact_no, contact_father)</p>

Create An External DTD for the above XML document where

- contact_no as id and contact_father as reference id.
- Make one entity of your choice and use in document.
- Make enumerated attributes of contact_no as home, office, personal
- make contact_no as nmtoken
- use conditional statement with parameter entity declaration (in external DTD and internal DTD)