Due on: Thursday 09.06.2005 by 14:00 (in class)

Exercise 1

a) How is namespace information represented in XPath data model? What are namespaces used for?

b) Download books.xml from the department webpage. Create five XPath expressions.
   1) Select every title in the document with the attribute "lang" set to *de*
   2) Select the last book element of the current node
   3) Select every node of the document
   4) Select all book elements under the books element that have **price** greater than 30.

c) Refer to the XPath lecture slides number 20/42. Can we query it in another way around? i.e. find out all the authors first then look at the book titles? Why or why not?

Exercise 2

a) Change all the **titles** from **books.xml** that contain the word "XML" to the word "Extensible Markup Language" and the rest of the titles to uppercase.

b) Change all the **prices** from **books.xml** that cost above 35.00 to 40.00.

c) Given the following Expressions and Results (see next page), generate the corresponding XML document.

Expression	Result
count(//*)	7
count(//@*)	6
count(//argument)	2
count(//class)	1
count(//function)	2
count(//description)	1
count(//return)	1
count(//text())	1
count(//function/return)	1
count(//function/argument)	2
count(//class/*)	3
count(//description/*)	0
//class/description	{"This class handles input"}
//@name	{"input", "text", "number"}
//@type	{"string", "int", "string"}
//return/@type	{"int"}
//argument/@type	{"string", "string"}
boolean(//function/@name)	true
boolean(//class/@name)	true