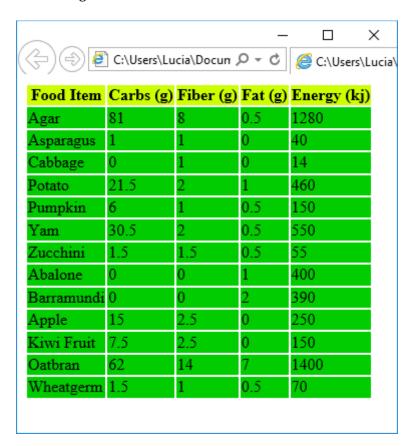
## WORKSHEET3-XPATH AND XSLT

## 1. With the following XML document:

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<bookShop>
<book category="cooking">
     <title language="en">Everyday Italian</title>
     <author>Giada De Laurentiis</author>
     <year>2005
     <price>30.00</price>
</book>
<book category="children">
     <title language="en">Harry Potter</title>
     <author>J K. Rowling</author>
     <year>2005
     <price>29.99</price>
</book>
<book category="web" cover="paperback">
     <title language="en">XQuery Kick Start</title>
     <author>James McGovern</author>
     <author>Per Bothner</author>
     <author>Kurt Cagle</author>
     <author>James Linn</author>
     <author>Vaidyanathan Nagarajan</author>
     <section par="1">
           <chapter num="1">
                 <title>XML The foundation of XQuery</title>
                 <npages>14</npages>
           </chapter>
           <chapter num="2">
                 <title>Understanding the XPath specification</title>
                 <npages>15</npages>
           </chapter>
     </section>
     <year>2003</year>
     <price>49.99</price>
</book>
<book category="web" cover="paperback">
     <title language="en">Learning XML</title>
     <author>Erik T. Ray</author>
     <chapter num="1">
                 <title>Introduction</title>
                 <npages>24</npages>
           </chapter>
     <chapter num="2">
           <title>Markup and Core Concepts</title>
           <npages>34</npages>
     </chapter>
     <year>2003</year>
     <price>39.95</price>
</bookShop>
```

Use XPath to obtain (in more than one way if possible):

- a. All titles of the document
- b. All titles of a book of the document
- c. All elements of a chapter
- d. All elements of a chapter in a section
- e. All elements
- f. Titles that have a chapter 1
- g. The third book with all its information
- h. All elements with attributes
- i. All elements with a *category* attribute
- j. Books with no *cover* attribute
- k. Elements with two *chapters*
- l. Book's about markup languages
- m. Titles whose author's name value has more than 15 characters
- n. Title of paperback books with more than 30 pages in any chapter
- 2. Create an XSL document for transforming the food.xml document into a webpage of the image:



- 3. Modify exercise one for obtaining a table showing only the Vegetables
- 4. Modify exercise one for obtaining a table showing the Vegetables in green and fruit in pink, ordered by quantity of fiber.
- 5. Modify exercise 3: Use Apply templates

- 6. Create an XSL document for transforming the *bookshop* XML document from the previous exercise into a webpage with:
  - a. A list with the titles of all books
  - b. A header for each section and a table with the titles and the number of pages of the chapters included in the section