Walther Saavedra 1DAM

Exercise 1:

a. All titles of the document:

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS   XPath F

XPath Query: //title

[Line 4] title: Everyday Italian
[Line 10] title: Harry Potter
[Line 16] title: XQuery Kick Start
[Line 24] title: XML The foundation of XQuery
[Line 28] title: Understanding the XPath specification
[Line 36] title: Learning XML
[Line 39] title: Introduction
[Line 43] title: Markup and Core Concepts

⊗ 0 ⚠ 0   🔊 0   1.62 KiB   ⊘ IBO]   ⊘   ☁ Cloud Code - Sign in   extension-output-Dotlochlobnson.xml #3 XPath P
e="en">Learning XML</title>

∨ OUTPUT
    XPath Query: //bookShop/*/title/text()

    [Line 4] null: Everyday Italian
    [Line 10] null: Harry Potter
    [Line 16] null: XQuery Kick Start
    [Line 36] null: Learning XML

b. All titles of a book of the document:

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```
36                  <title language="en">Learning XML</title>

PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS

XPath Query: //book/title

[Line 4] title: Everyday Italian
[Line 10] title: Harry Potter
[Line 16] title: XQuery Kick Start
[Line 36] title: Learning XML
```



```
∨ OUTPUT                                              XPath Resu

XPath Query: //book/title[@language='en']/text()

[Line 4] null: Everyday Italian
[Line 10] null: Harry Potter
[Line 16] null: XQuery Kick Start
[Line 36] null: Learning XML
```

c. All elements of a chapter:
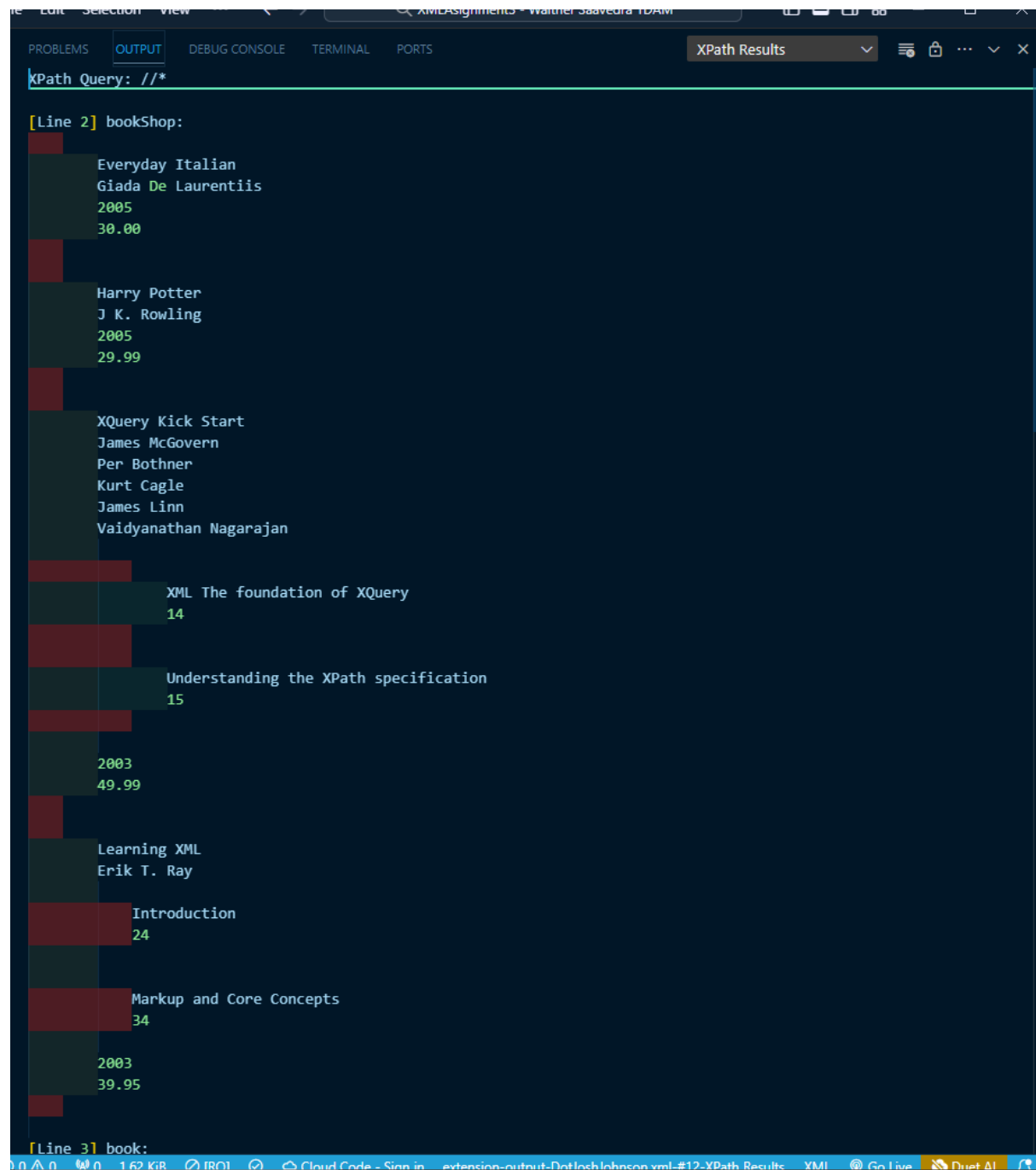


```
                    <npages>34</npages>

PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS

XPath Query: //chapter/*

[Line 24] title: XML The foundation of XQuery
[Line 25] npages: 14
[Line 28] title: Understanding the XPath specification
[Line 29] npages: 15
[Line 39] title: Introduction
[Line 40] npages: 24
[Line 43] title: Markup and Core Concepts
[Line 44] npages: 34
```

OUTPUT   XPath Results

XPath Query: //chapter//*

[Line 24] title: XML The foundation of XQuery
[Line 25] npages: 14
[Line 28] title: Understanding the XPath specification
[Line 29] npages: 15
[Line 39] title: Introduction
[Line 40] npages: 24
[Line 43] title: Markup and Core Concepts
[Line 44] npages: 34

OUTPUT   DEBUG CONSOLE   PORTS

OUTPUT   XPath Results

XPath Query: //chapter/node()

[Line 23] null:

[Line 24] title: XML The foundation of XQuery
[Line 24] null:

[Line 25] npages: 14
[Line 25] null:

[Line 27] null:

[Line 28] title: Understanding the XPath specification
[Line 28] null:

[Line 29] npages: 15
[Line 29] null:

d. All elements of a chapter in a section:

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

XPath Query: //section/chapter/*

[Line 24] title: XML The foundation of XQuery
[Line 25] npages: 14
[Line 28] title: Understanding the XPath specification
[Line 29] npages: 15

OUTPUT DEBUG CONSOLE PORTS

> ∨ OUTPUT   XPath Results
⚠   XPath Query: //section/chapter/descendant::*

    [Line 24] title: XML The foundation of XQuery
    [Line 25] npages: 14
    [Line 28] title: Understanding the XPath specification
    [Line 29] npages: 15

e. All elements:

File Edit Selection View ... XMLAsignments - Walther Saavedra 1DAM

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS   XPath Results
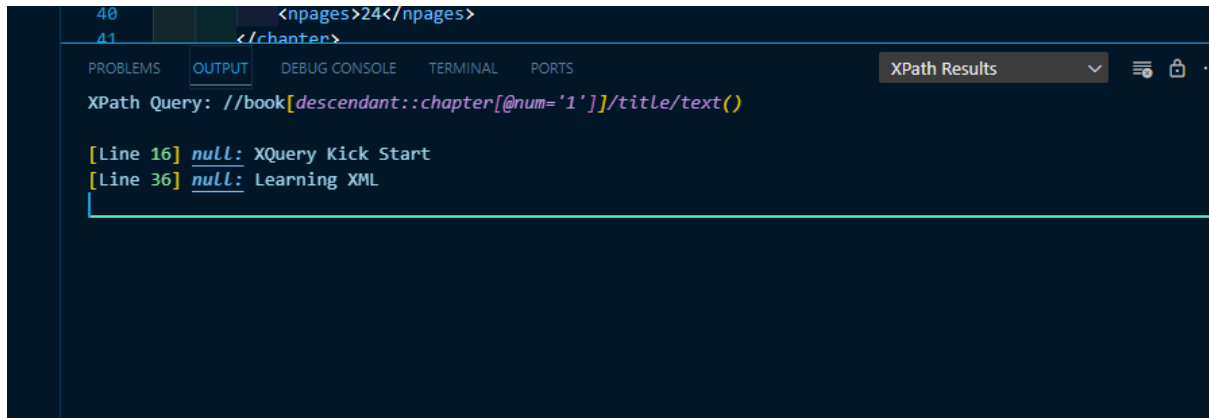
XPath Query: //*

[Line 2] bookShop:

        Everyday Italian
        Giada De Laurentiis
        2005
        30.00

        Harry Potter
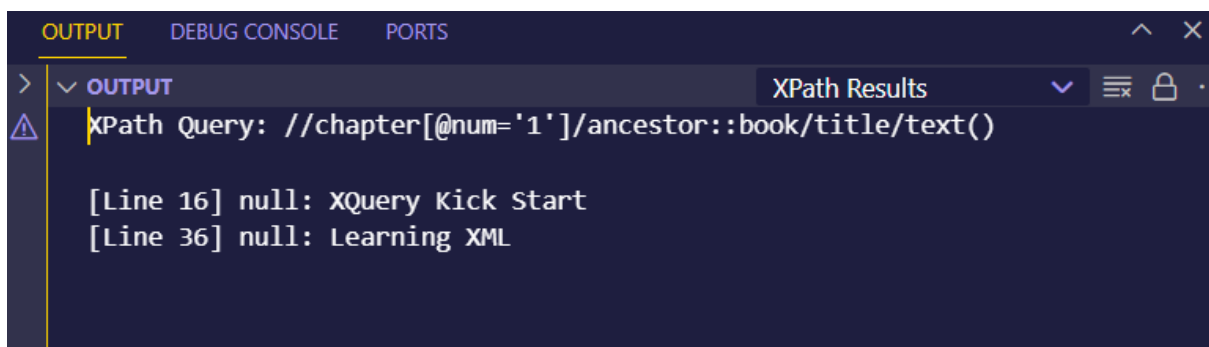   J K. Rowling
        2005
        29.99

        XQuery Kick Start
        James McGovern
        Per Bothner
        Kurt Cagle
        James Linn
        Vaidyanathan Nagarajan

            XML The foundation of XQuery
            14

            Understanding the XPath specification
            15
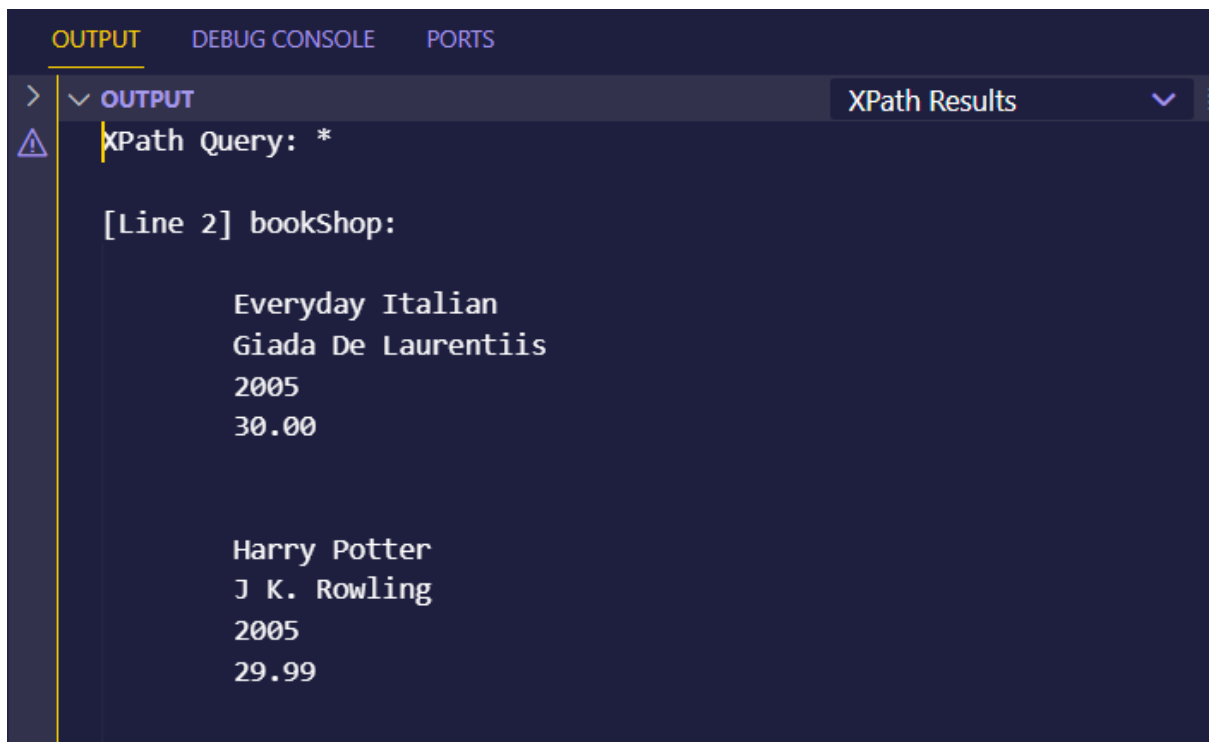
        2003
        49.99

        Learning XML
        Erik T. Ray

            Introduction
            24

            Markup and Core Concepts
            34

        2003
        39.95

[Line 3] book:

```
OUTPUT    DEBUG CONSOLE    PORTS

> v OUTPUT                                          XPath Results        v
⚠   XPath Query: *

    [Line 2] bookShop:

            Everyday Italian
            Giada De Laurentiis
            2005
            30.00


            Harry Potter
            J K. Rowling
            2005
            29.99
```

f. Titles that have a chapter 1:

```
40              <npages>24</npages>
41          </chapter>
PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS          XPath Results     v    ≡ 🔒
XPath Query: //book[descendant::chapter[@num='1']]/title/text()

[Line 16] null: XQuery Kick Start
[Line 36] null: Learning XML
```

```
OUTPUT    DEBUG CONSOLE    PORTS                                    ^  X

> v OUTPUT                                          XPath Results    v   ≡x 🔒
⚠   XPath Query: //chapter[@num='1']/ancestor::book/title/text()

    [Line 16] null: XQuery Kick Start
    [Line 36] null: Learning XML
```

g. The third book with all its information:

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```
XPath Query: //book[3]/*

[Line 16] title: XQuery Kick Start
[Line 17] author: James McGovern
[Line 18] author: Per Bothner
[Line 19] author: Kurt Cagle
[Line 20] author: James Linn
[Line 21] author: Vaidyanathan Nagarajan
[Line 22] section:

                XML The foundation of XQuery
                14


                Understanding the XPath specification
                15


[Line 32] year: 2003
[Line 33] price: 49.99
```

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```
OUTPUT    DEBUG CONSOLE    PORTS

> ∨ OUTPUT                                    XPath Results        ∨
⚠   XPath Query: //book[position() = 3]/*

    [Line 16] title: XQuery Kick Start
    [Line 17] author: James McGovern
    [Line 18] author: Per Bothner
    [Line 19] author: Kurt Cagle
    [Line 20] author: James Linn
    [Line 21] author: Vaidyanathan Nagarajan
    [Line 22] section:


                    XML The foundation of XQuery
                    14



                    Understanding the XPath specification
                    15


    [Line 32] year: 2003
    [Line 33] price: 49.99
```

h. All elements with attributes:

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```
XPath Query: //*[@*]

[Line 3] book:
        Everyday Italian
        Giada De Laurentiis
        2005
        30.00

[Line 4] title: Everyday Italian
[Line 9] book:
        Harry Potter
        J K. Rowling
        2005
        29.99

[Line 10] title: Harry Potter
[Line 15] book:
        XQuery Kick Start
        James McGovern
        Per Bothner
        Kurt Cagle
        James Linn
        Vaidyanathan Nagarajan


                XML The foundation of XQuery
                14


                Understanding the XPath specification
                15


        2003
        49.99

[Line 16] title: XQuery Kick Start
[Line 22] section:

                XML The foundation of XQuery
                14


                Understanding the XPath specification
                15


[Line 23] chapter:
                XML The foundation of XQuery
                14
```
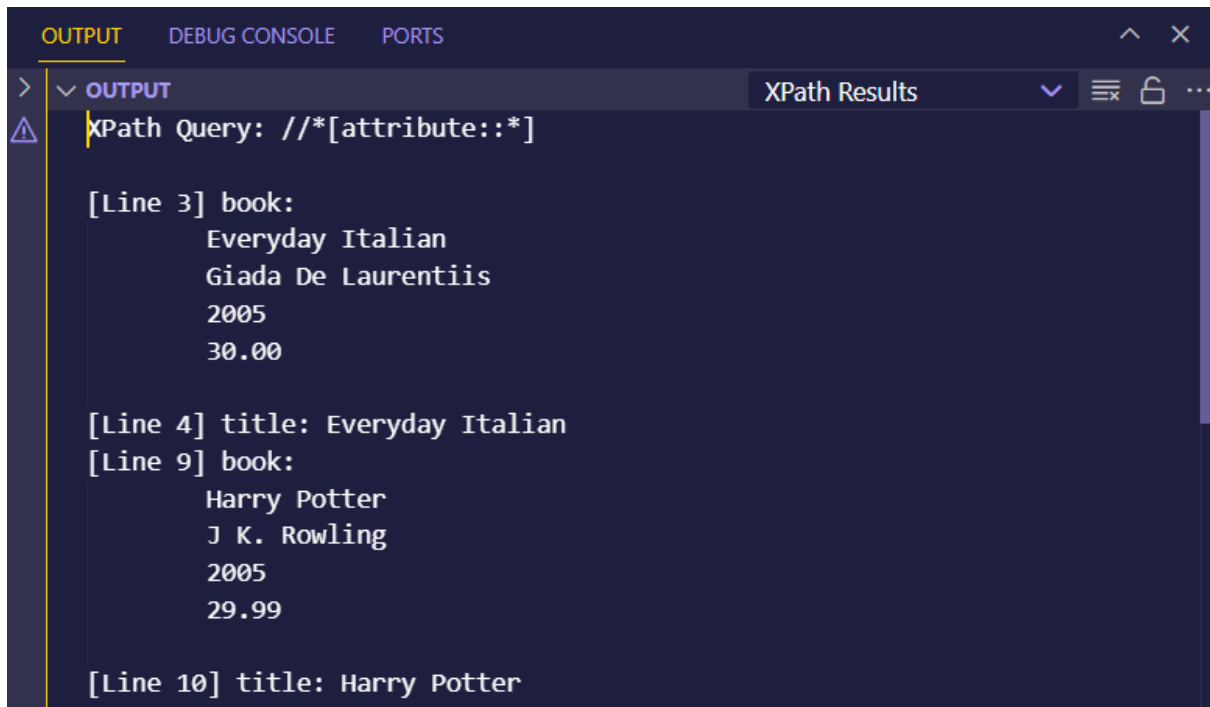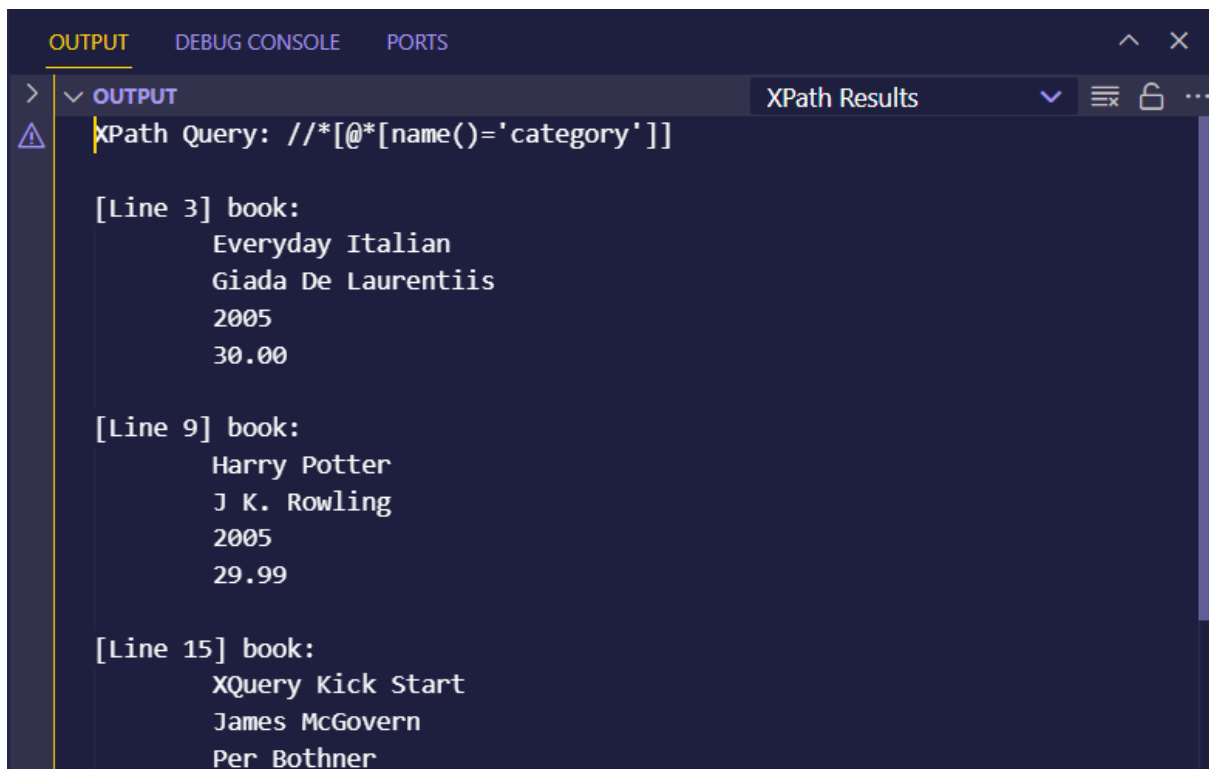
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```
OUTPUT    DEBUG CONSOLE    PORTS                                    ^  X

 >  ∨ OUTPUT                               XPath Results        ∨  ≡x  🔓  ···
 ⚠    XPath Query: //*[attribute::*]

      [Line 3] book:
              Everyday Italian
              Giada De Laurentiis
              2005
              30.00

      [Line 4] title: Everyday Italian
      [Line 9] book:
              Harry Potter
              J K. Rowling
              2005
              29.99

      [Line 10] title: Harry Potter
```

i. All elements with a category attribute:

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```
XPath Query: //*[@category]

[Line 3] book:
        Everyday Italian
        Giada De Laurentiis
        2005
        30.00


[Line 9] book:
        Harry Potter
        J K. Rowling
        2005
        29.99


[Line 15] book:
        XQuery Kick Start
        James McGovern
        Per Bothner
        Kurt Cagle
        James Linn
        Vaidyanathan Nagarajan


                XML The foundation of XQuery
                14


                Understanding the XPath specification
                15


        2003
        49.99

[Line 35] book:
        Learning XML
        Erik T. Ray

                Introduction
                24


                Markup and Core Concepts
                34


        2003
        39.95
```
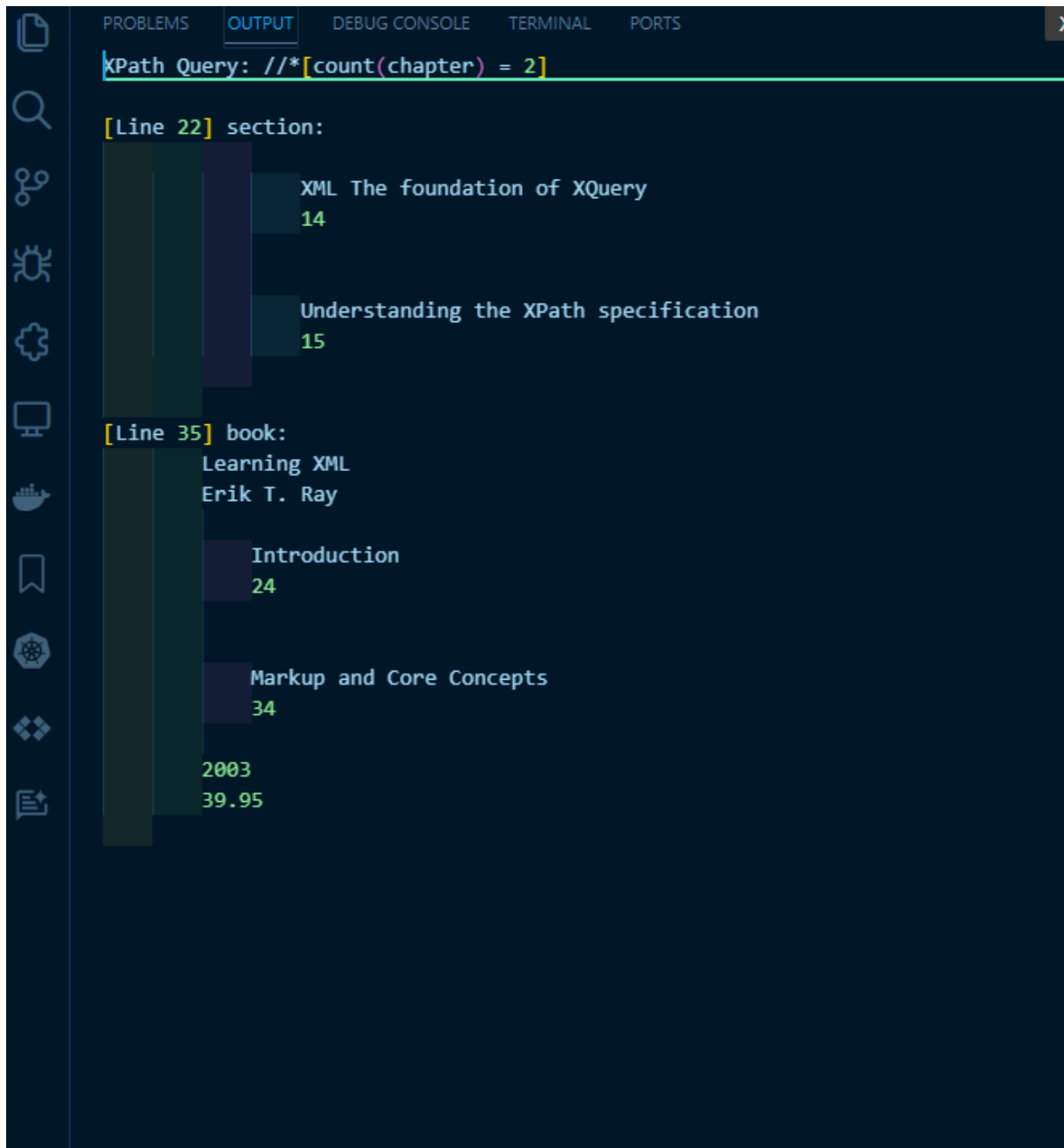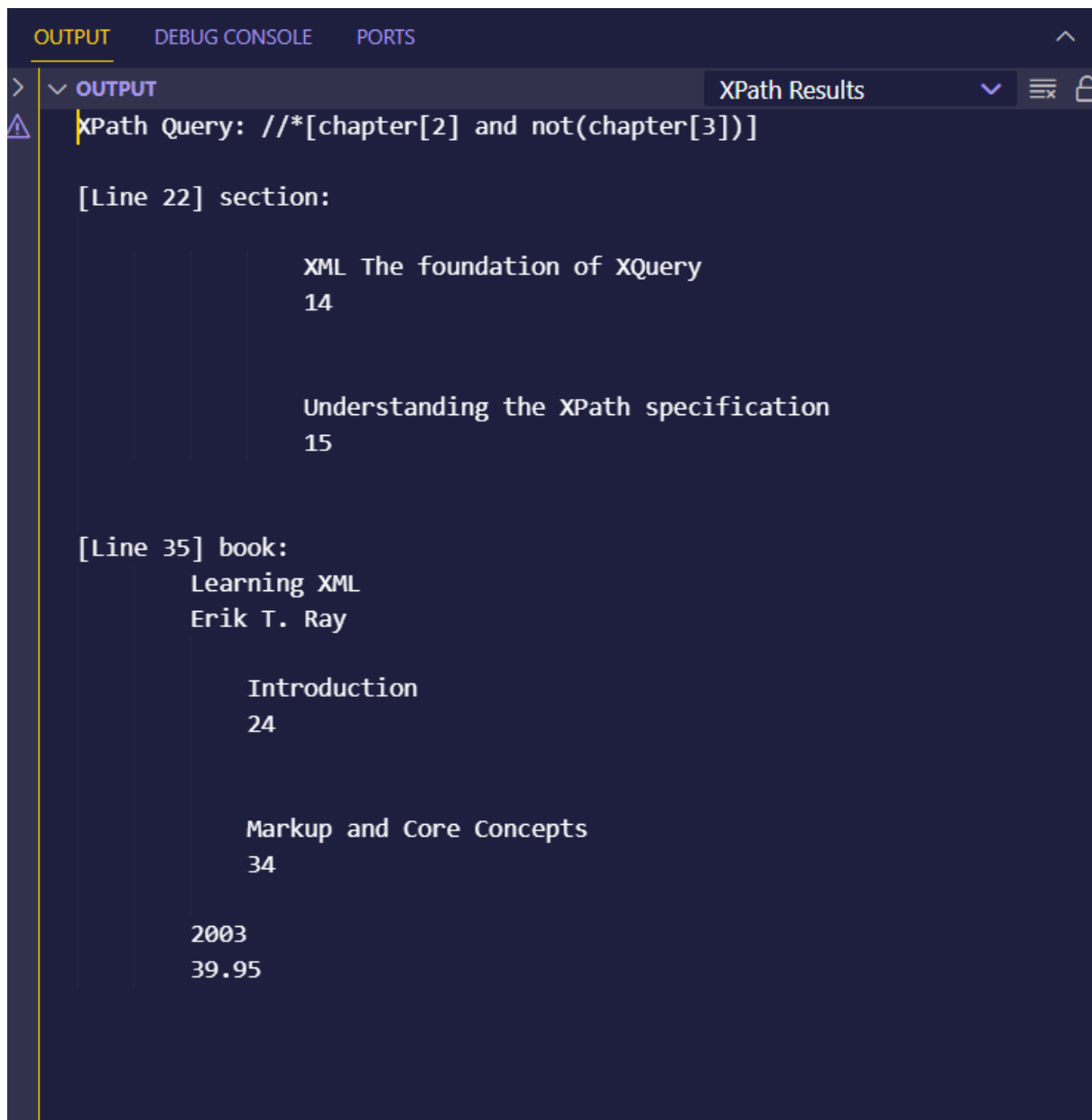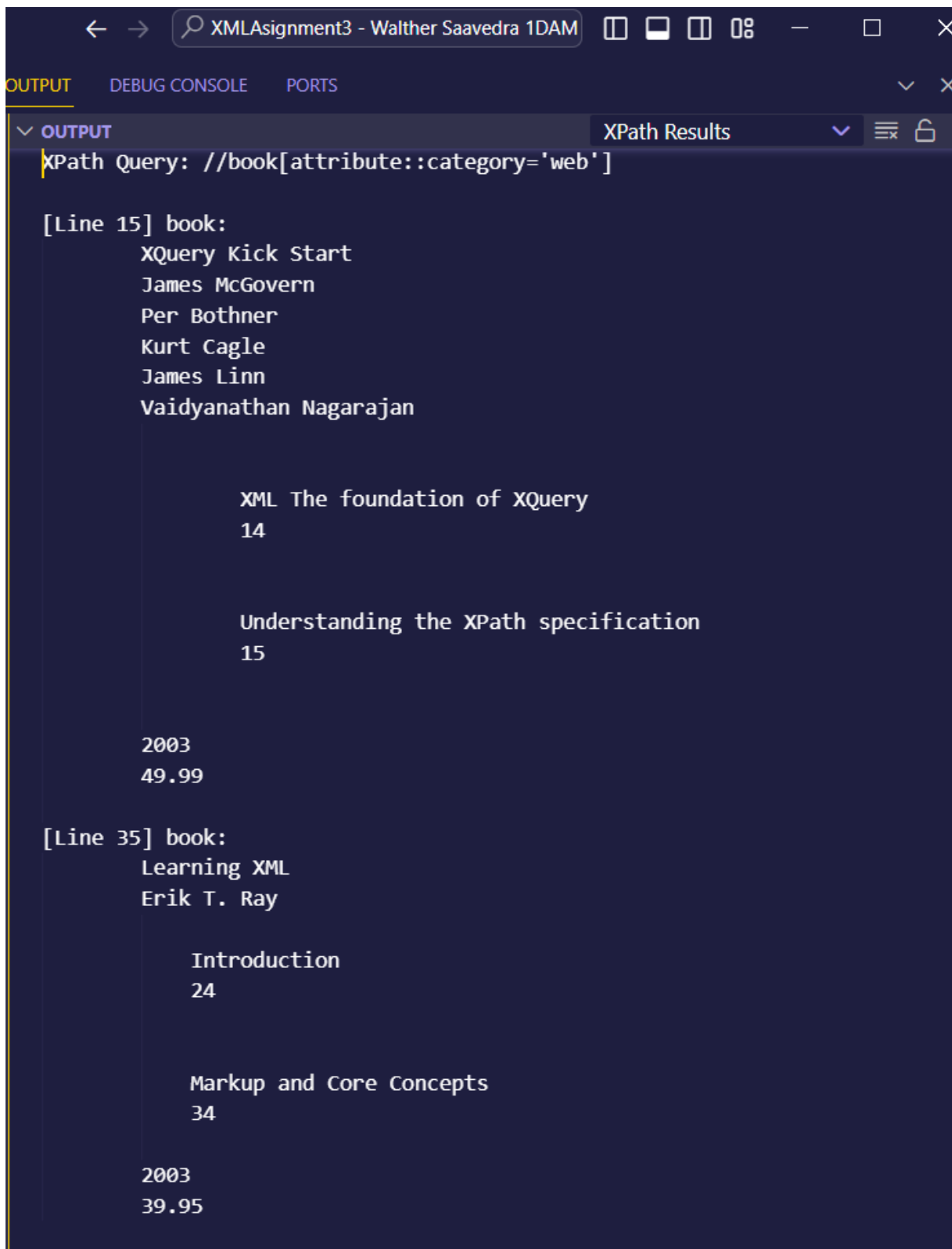
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OUTPUT   DEBUG CONSOLE   PORTS

> ∨ OUTPUT   XPath Results
⚠   XPath Query: //*[@*[name()='category']]

    [Line 3] book:
            Everyday Italian
            Giada De Laurentiis
            2005
            30.00

    [Line 9] book:
            Harry Potter
            J K. Rowling
            2005
            29.99

    [Line 15] book:
            XQuery Kick Start
            James McGovern
            Per Bothner

j. Books with no cover attribute:

XPath Query: //book [not(@cover)]

[Line 3] book:
        Everyday Italian
        Giada De Laurentiis
        2005
        30.00

[Line 9] book:
        Harry Potter
        J K. Rowling
        2005
        29.99

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```
OUTPUT    DEBUG CONSOLE    PORTS

>  ∨ OUTPUT                                          XPath Resul
⚠     XPath Query: //book[not(attribute::cover)]

      [Line 3] book:
              Everyday Italian
              Giada De Laurentiis
              2005
              30.00

      [Line 9] book:
              Harry Potter
              J K. Rowling
              2005
              29.99
```

k. Elements with two chapters:

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```
XPath Query: //*[count(chapter) = 2]

[Line 22] section:

                XML The foundation of XQuery
                14


                Understanding the XPath specification
                15


[Line 35] book:
        Learning XML
        Erik T. Ray

            Introduction
            24


            Markup and Core Concepts
            34


        2003
        39.95
```

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I. Book's about markup languages:

```
XPath Query: //book[contains(@category, 'web')]

[Line 15] book:
        XQuery Kick Start
        James McGovern
        Per Bothner
        Kurt Cagle
        James Linn
        Vaidyanathan Nagarajan


                    XML The foundation of XQuery
                    14


                    Understanding the XPath specification
                    15


        2003
        49.99

[Line 35] book:
        Learning XML
        Erik T. Ray

            Introduction
            24


            Markup and Core Concepts
            34

        2003
        39.95
```
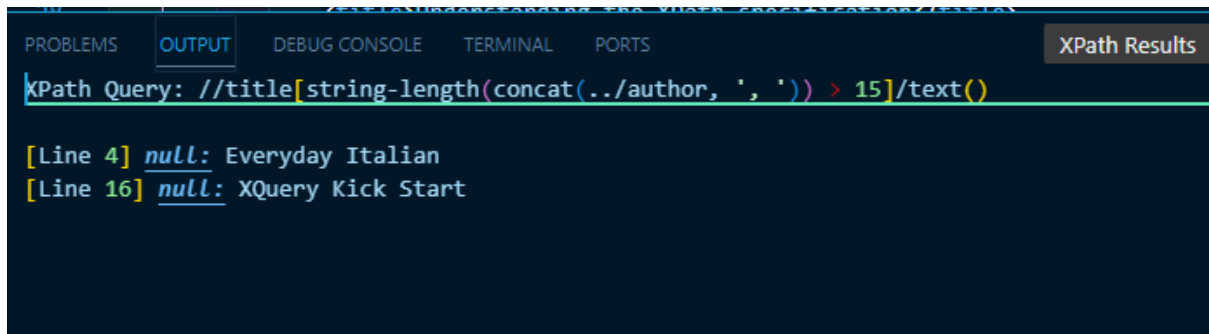
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OUTPUT   DEBUG CONSOLE   PORTS

∨ OUTPUT   XPath Results

XPath Query: //book[attribute::category='web']

[Line 15] book:
        XQuery Kick Start
        James McGovern
        Per Bothner
        Kurt Cagle
        James Linn
        Vaidyanathan Nagarajan

            XML The foundation of XQuery
            14

            Understanding the XPath specification
            15

        2003
        49.99

[Line 35] book:
        Learning XML
        Erik T. Ray

            Introduction
            24

            Markup and Core Concepts
            34

        2003
        39.95

m. Titles whose author's name value has more than 15 characters:

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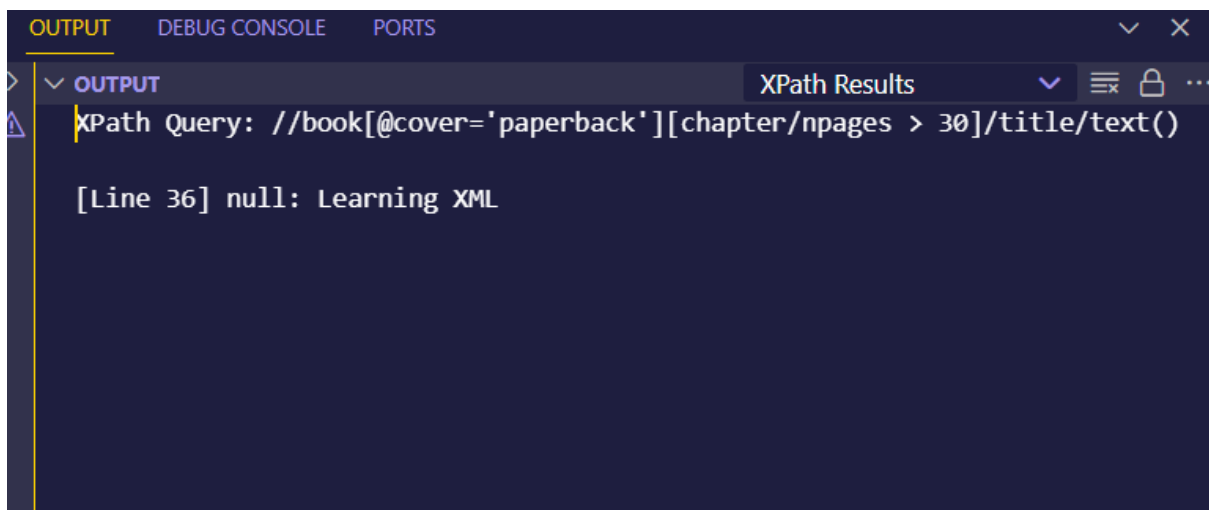
n. Title of paperback books with more than 30 pages in any chapter: