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## ASSIGNMENT#3

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## CODE:

```
import xml.etree.ElementTree as ET
from prettytable import PrettyTable

# parse the xml file
tree = ET.parse('compiler.xml')
root = tree.getroot()

# create a table to hold the data
table = PrettyTable()

# add columns to the table
print("THE INFORMATION IS \n")
table.field_names = [ 'BOOK_ID','AUTHOR', 'TITLE','GENRE',
'PRICE','PUBLISH_DATE', 'DESCRIPTION']

# iterate through the xml elements and add them to the table
for child in root:
    table.add_row([child.get("id"),child.find("author").text,child.find("title").text,
                    child.find("genre").text,child.find("price").text,
                    child.find("publish_date").text,
                    child.find("description").text])

# print the table
print(table)
```

## OUTPUT:

THE INFORMATION IS

BOOK_ID	AUTHOR	TITLE	GENRE	PRICE	PUBLISH_DATE	DESCRIPTION
bk101	Gambardella, Matthew	XML Developer's Guide	Computer	44.95	2000-10-01	An in-depth look at creating with XML.
bk102	Ralls, Kim	Midnight Rain	Fantasy	5.95	2000-12-16	A former architect battles cor an evil sorceress and her own ch
bk111	O'Brien, Tim	MSXML3: A Comprehensive Guide	Computer	36.95	2000-12-01	detail in this deep progra The Microsoft MSXML3 parser detail, with attention to XML DOM in SAX and mor
bk112	Galos, Mike	Visual Studio 7: A Comprehensive Guide	Computer	49.95	2001-04-16	Microsoft Visual Studio 7 is ex Looking at how Visual Basic, Visu integrated into a comprehe environmen

## EXPLANATION:

we have used `import xml.etree.ElementTree as ET` to parse the XML file in python.

The prettytable library has been installed first, in order to generate the table.

Then we have parsed the xml file using `ET.parse("file.xml)` and generated the table.

**.field\_name** (to add the field names to table).

## REFERENCE:

<https://github.com/vanyaahmed20?tab=repositories>

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