

### Practical 33

Write a python program for paring XML using XPath.

```
[2]: from lxml import objectify
import pandas as pd
from distutils import util
xml = objectify.parse(open('books.xml'))
root = xml.getroot()
print(root.tag)
a=root.xpath('book/author')
t=root.xpath('book/title')
p=root.xpath('book/price')
g=root.xpath('book/genre')
pdd=root.xpath('book/publish_date')
list1=[a,t,p,g,pdd]
print(list1)
df = pd.DataFrame(list1)
print(df)
```

catalog

```
['Smith, John', 'Johnson, Mary', 'Roberts, David', 'Lee, Sarah', 'Baker, Michael', 'Williams, Laura', 'King, Stephen', 'Chen, Mei', 'Wilson, James', 'Anderson, Emily'], ['The Art of Programming', 'Into the Wild', 'The Enigma Code', 'Love in the City', 'Space Odyssey', 'Mystery Mansion', 'The Haunting', 'Recipes from Around the World', 'History Uncovered', 'Gardening for Beginners'], [29.99, 12.99, 14.95, 9.99, 19.99, 11.99, 13.99, 10.99, 15.99, 8.99], ['Computer', 'Adventure', 'Thriller', 'Romance', 'Science Fiction', 'Mystery', 'Horror', 'Cookbook', 'History', 'Gardening'], ['2023-05-15', '2023-08-20', '2023-06-10', '2023-02-14', '2023-10-30', '2023-04-18', '2023-10-28', '2023-01-05', '2023-07-22', '2023-03-12']]
```

	0	1	2 \
0	[[[Smith, John]]]	[[[Johnson, Mary]]]	[[[Roberts, David]]]
1	[[[The Art of Programming]]]	[[[Into the Wild]]]	[[[The Enigma Code]]]
2	[[[29.99]]]	[[[12.99]]]	[[[14.95]]]
3	[[[Computer]]]	[[[Adventure]]]	[[[Thriller]]]
4	[[[2023-05-15]]]	[[[2023-08-20]]]	[[[2023-06-10]]]

	3	4	5 \
0	[[[Lee, Sarah]]]	[[[Baker, Michael]]]	[[[Williams, Laura]]]
1	[[[Love in the City]]]	[[[Space Odyssey]]]	[[[Mystery Mansion]]]
2	[[[9.99]]]	[[[19.99]]]	[[[11.99]]]
3	[[[Romance]]]	[[[Science Fiction]]]	[[[Mystery]]]
4	[[[2023-02-14]]]	[[[2023-10-30]]]	[[[2023-04-18]]]

	6	7 \
0	[[[King, Stephen]]]	[[[Chen, Mei]]]
1	[[[The Haunting]]]	[[[Recipes from Around the World]]]
2	[[[13.99]]]	[[[10.99]]]

3	[[[Horror]]]	[[[Cookbook]]]
4	[[[2023-10-28]]]	[[[2023-01-05]]]
	8	9
0	[[[Wilson, James]]]	[[[Anderson, Emily]]]
1	[[[History Uncovered]]]	[[[Gardening for Beginners]]]
2	[[[15.99]]]	[[[8.99]]]
3	[[[History]]]	[[[Gardening]]]
4	[[[2023-07-22]]]	[[[2023-03-12]]]

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