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Sample xml file:



```xml
<?xml version="1.0"?>
<data>
    <country name="Liechtenstein">
        <rank>1</rank>
        <year>2008</year>
        <gdppc>141100</gdppc>
        <neighbor name="Austria" direction="E"/>
    </country>
    <country name="Singapore">
        <rank>4</rank>
        <year>2011</year>
        <gdppc>59900</gdppc>
        <neighbor name="Malaysia" direction="N"/>
    </country>
    <country name="Panama">
        <rank>68</rank>
        <year>2011</year>
        <gdppc>13600</gdppc>
        <neighbor name="Costa Rica" direction="W"/>
        <neighbor name="Colombia" direction="E"/>
    </country>
</data>
```

Python code to Parse xml file and create tex file
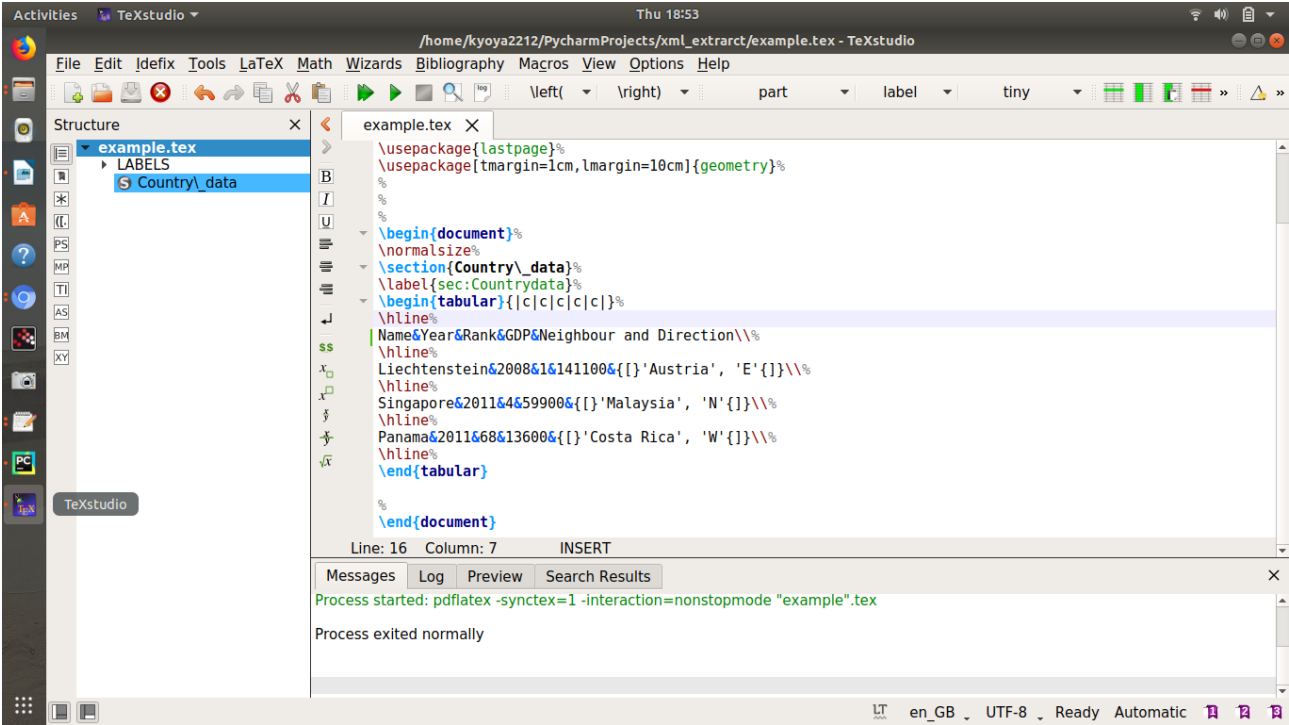


```python
import xml.etree.ElementTree as ET
import numpy as np
from pylatex import Document, Section, Subsection, Tabular
import os
if __name__ == '__main__':
    image_filename = os.path.join(os.path.dirname(__file__))
    geometry_options = {"tmargin": "1cm", "lmargin": "10cm"}
    doc = Document(geometry_options=geometry_options)
    tree = ET.parse('/home/kyoya2212/data.xml')
    root = tree.getroot()
    name=[]
    for country in root.findall('country'):
        name1 = country.get('name')
        name.append(name1)
    list2 = []
    for neighbor in root.iter('neighbor'):
        list2.append(list(neighbor.attrib.values()))

    with doc.create(Section('Country_data')):
        with doc.create(Tabular('|c|c|c|c|c|')) as table:
            table.add_hline()
            table.add_row(['Name','Year','Rank','GDP','Neighbour and Direction'])
            table.add_hline()
            table.add_row([name[0],root[0][1].text,root[0][0].text,root[0][2].text,list2[0]])
            table.add_hline()
            table.add_row([name[1],root[1][1].text,root[1][0].text,root[1][2].text,list2[1]])
            table.add_hline()
            table.add_row([name[2],root[2][1].text,root[2][0].text,root[2][2].text,list2[2]])
            table.add_hline()
    doc.generate_pdf('example', clean_tex=False)
```

tex file generated



visual format:



## 1 Country_data

| Name | Year | Rank | GDP | Neighbour and Direction |
|---|---|---|---|---|
| Liechtenstein | 2008 | 1 | 141100 | 'Austria', 'E' |
| Singapore | 2011 | 4 | 59900 | 'Malaysia', 'N' |
| Panama | 2011 | 68 | 13600 | 'Costa Rica', 'W' |