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I. Convert JSON to XML.

Step 1: Have a Json file. (DSLj.json)

Step 2. Open python. Insert code: Use module *json2xml*

```
Ħ
                                  phong@ubuntu: ~
                                                            Q
GNU nano 4.8
                                         3.py
n<mark>port</mark> json
ef json2xml(json_obj, Line_spacing=""):
 result list = list()
  json_obj_type = type(json_obj)
 if json_obj_type is list:
      for sub elem in json obj:
          result list.append(json2xml(sub elem, Line spacing))
      return "\n".join(result_list)
 if json_obj_type is dict:
      for tag_name in json_obj:
          sub_obj = json_obj[tag_name]
          result_list.append("%s<%s>" % (Line_spacing, tag_name))
          result_list.append(json2xml(sub_obj, "\t" + Line_spacing))
          result_list.append("%s</%s>" % (Line_spacing, tag_name))
          return "\n".join(result_list)
  return "%s%s" % (Line spacing, json obj)
                               [ Read 23 lines ]
 Get Help
               Write Out ^W Where Is
                                                        Justify
                             Replace
```

3. Output:

```
:1951200042>
       1951200013
/1951200042>
1951200042>
       1951200031
/1951200042>
1951200042>
       1951200024
/1951200042>
:1951200042>
       1951200019
/1951200042>
1951200042>
       1951200018
/1951200042>
:1951200042>
       1951200011
/1951200042>
1951200042>
/1951200042>
.
1951200042>
       1951200003
```

Notion:

- Use module *json2xml*

II. Convert XML to JSON:

Step 1: Have a xml file. (DSLx.xml)

```
DSLx.xml
 Open
1 <?xml version="1.0" encoding="UTF-8"?>
2 <?mso-application progid="Excel.Sheet"?><Workbook xmlns="urn:schemas-microsoft-</p>
 com:office:spreadsheet" xmlns:c="urn:schemas-microsoft-com:office:component:spreadsheet"
 xmlns:html="http://www.w3.org/TR/REC-html40" xmlns:o="urn:schemas-microsoft-com:office:office"
 xmlns:ss="urn:schemas-microsoft-com:office:spreadsheet" xmlns:x2="http://schemas.microsoft.com/-
 office/excel/2003/xml" xmlns:x="urn:schemas-microsoft-com:office:excel" xmlns:xsi="http://-
 www.w3.org/2001/XMLSchema-instance"><OfficeDocumentSettings xmlns="urn:schemas-microsoft-
 com:office:office"><Color><Color><Index>3</Index><RGB>#000000</RGB></Color><Color><Index>4</-</pre>
 Index><RGB>#0000ee</RGB></Color><Color><Index>5</Index><RGB>#006600</RGB></-</pre>
 Color><Color><Index>6</Index><RGB>#333333</RGB></Color><Color><Index>7</Index><RGB>#808080</-
 RGB></Color><Color><Index>8</Index><RGB>#996600</RGB></Color><Color><Index>9</-
 Index><RGB>#c0c0c0</RGB></Color><Color><Index>10</Index><RGB>#cc0000</RGB></-</pre>
 Color><Color><Index>11</Index><RGB>#ccffcc</RGB></Color><Color><Index>12</Index><RGB>#dddddd</-
 RGB></Color><Color><Index>13</Index><RGB>#ff0000</RGB></Color><Color><Index>14</-
 Index><RGB>#ffcccc</RGB></Color><Color><Index>15</Index><RGB>#ffffcc</RGB></-</pre>
 Color><Color><Index>16</Index><RGB>#ffffff</RGB></Color></Colors></-
 OfficeDocumentSettings><ExcelWorkbook xmlns="urn:schemas-microsoft-
 com:office:excel"><WindowHeight>9000</WindowHeight><WindowWidth>13860</-
 WindowWidth><WindowTopX>240</WindowTopX><WindowTopY>75</WindowTopY><ProtectStructure>False
 ProtectStructure><ProtectWindows>False</ProtectWindows></ExcelWorkbook><Styles><Style
 ss:ID="Default" ss:Name="Default"><Font ss:Color="#000000" ss:FontName="Calibri" ss:Size="11"/-
 ></Style><Style ss:ID="Heading" ss:Name="Heading"><Font ss:Bold="1" ss:Color="#000000"</pre>
 ss:FontName="Calibri" ss:Size="24"/></Style><Style ss:ID="Heading 20 1" ss:Name="Heading
 1"><Font ss:Bold="1" ss:Color="#000000" ss:FontName="Calibri" ss:Size="18"/></Style><Style
 ss:ID="Heading 20 2" ss:Name="Heading 2"><Font ss:Bold="1" ss:Color="#000000"
 ss:FontName="Calibri" ss:Size="12"/></Stvle><Stvle ss:ID="Text" ss:Name="Text"><Font
 ss:Color="#000000" ss:FontName="Calibri" ss:Size="11"/></Style><Style ss:ID="Note"
 ss:Name="Note"><Borders><Border ss:Position="Bottom" ss:LineStyle="Continuous" ss:Weight="1"
 ss:Color="#808080"/><Border ss:Position="Left" ss:LineStyle="Continuous" ss:Weight="1"
 ss:Color="#808080"/><Border ss:Position="Right" ss:LineStyle="Continuous" ss:Weight="1"
 ss:Color="#808080"/><Border ss:Position="Top" ss:LineStyle="Continuous" ss:Weight="1"
 ss:Color="#808080"/></Borders><Font ss:Color="#333333" ss:FontName="Calibri" ss:Size="10"/-
 ><Interior ss:Color="#ffffcc" ss:Pattern="Solid"/></Style><Style ss:ID="Footnote"
 ss:Name="Footnote"><Font ss:Color="#808080" ss:FontName="Calibri" ss:Italic="1" ss:Size="10"/-
 ></Style><Style ss:ID="Hyperlink" ss:Name="Hyperlink"><Font ss:Color="#0000ee"
 ss:FontName="Calibri" ss:Size="10" ss:Underline="Single"/></Style><Style ss:ID="Status"
 cc.Nama-"Ctatuc"~>Font cc.Color-"#AAAAAA" cc.FontNama-"Calibri" cc.Ciza-"11"/~//Ctula~>Ctula
```

Step 2: Open Python and insert code:

```
GNU nano 4.8

Import xmltodict

import json

with open('DSLx.xml') as xml_file:

my_dict=xmltodict.parse(xml_file.read())

xml_file.close()

json_data=json.dumps(my_dict)

print(json_data)
```

Output:

```
| PhongGubuntu: | PhongGubuntu
```

Notion:

Module: xmltodict