

ASSIGNMENT

PROG 301: Advanced Programming with Python
and Scripting

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Code:

```
import urllib.request
import json
from bs4 import BeautifulSoup
import os

url = "http://example.com"
response = urllib.request.urlopen(url)
webContent = response.read()

soup = BeautifulSoup(webContent, 'html.parser')
data = {}

hedding = soup.select_one('h1')
data['title'] = [p.get_text() for p in paragraphs]

paragraphs = soup.select_one('p')
data['paragraphs'] = [p.get_text() for p in paragraphs]

paragraphs = soup.select_one('a')
data['link'] = [p.get_text() for p in paragraphs]

json_data = json.dumps(data, indent=4)

with open('output.json', 'w') as json_file:
    json_file.write(json_data)
file_path = os.path.abspath('output.json')
print(f>Data saved to {json_file}")
print(f>File is located at: {file_path}")
print("Data has been written to output.json")
with open('output.json', 'r') as json_file:
    print(json_file.read())
```

Output:

```
Data saved to <_io.TextIOWrapper name='output.json' mode='w' encoding='UTF-8'>
File is located at: /content/output.json
Data has been written to output.json
{
  "title": [
    "More information..."
  ],
  "paragraphs": [
    [
      "This domain is for use in illustrative examples in documents. You may use this",
      "domain in literature without prior coordination or asking for permission."
    ]
  ],
  "link": [
    "More information..."
  ]
}
```