

In [1]:

```
1 !pip install selenium
2 !pip install requests
3 !pip install urllib3
4 !pip install bs4
```

Requirement already satisfied: selenium in d:\anaconda\lib\site-packages (3.141.0)

Requirement already satisfied: urllib3 in d:\anaconda\lib\site-packages (from selenium) (1.25.11)

Requirement already satisfied: requests in d:\anaconda\lib\site-packages (2.24.0)

Requirement already satisfied: urllib3!=1.25.0,!=1.25.1,<1.26,>=1.21.1 in d:\anaconda\lib\site-packages (from requests) (1.25.11)

Requirement already satisfied: idna<3,>=2.5 in d:\anaconda\lib\site-packages (from requests) (2.10)

Requirement already satisfied: certifi>=2017.4.17 in d:\anaconda\lib\site-packages (from requests) (2020.6.20)

Requirement already satisfied: chardet<4,>=3.0.2 in d:\anaconda\lib\site-packages (from requests) (3.0.4)

Requirement already satisfied: urllib3 in d:\anaconda\lib\site-packages (1.25.11)

Requirement already satisfied: bs4 in d:\anaconda\lib\site-packages (0.0.1)

Requirement already satisfied: beautifulsoup4 in d:\anaconda\lib\site-packages (from bs4) (4.9.3)

Requirement already satisfied: soupsieve>1.2; python\_version >= "3.0" in d:\anaconda\lib\site-packages (from beautifulsoup4->bs4) (2.0.1)

In [2]:

```

1  # import required modules
2  import requests
3
4  # get URL
5  page = requests.get("https://en.wikipedia.org/wiki/Paragraph")
6
7  # display status code
8  print(page.status_code)
9
10 # display scrapped data
11 print(page.content)

```

200

```

b'<!DOCTYPE html>\n<html class="client-nojs" lang="en" dir="ltr">\n<head>
\n<meta charset="UTF-8"/>\n<title>Paragraph - Wikipedia</title>\n<script>
document.documentElement.className="client-js";RLCONF={"wgBreakFrames":!
1,"wgSeparatorTransformTable":["",""],"wgDigitTransformTable":["",""],"wg
DefaultDateFormat":"dmy","wgMonthNames":["","January","February","Marc
h","April","May","June","July","August","September","October","Novembe
r","December"],"wgRequestId":"88b2811d-7640-4718-97d3-5fdcf9cd644e","wgCS
PNonce":!1,"wgCanonicalNamespace":"","wgCanonicalSpecialPageName":!1,"wgN
amespaceNumber":0,"wgPageName":"Paragraph","wgTitle":"Paragraph","wgCurRe
visionId":1039583963,"wgRevisionId":1039583963,"wgArticleId":230752,"wgIs
Article":!0,"wgIsRedirect":!1,"wgAction":"view","wgUserName":null,"wgUser
Groups":["*"],"wgCategories":["Articles with limited geographic scope fro
m June 2013","Articles containing Ancient Greek (to 1453)-language tex
t","All articles with unsourced statements","Articles with unsourced stat
ements from January 2020","Typography","Writing"],"wgPageContentLanguag
e":"en","wgPageContentModel":"wikitext",\n"wgRelevantPageName":"Paragrap
h","wgRelevantArticleId":230752,"wgIsProbablyEditable":!0,"wgRelevantPage
IsProbablyEditable":!0,"wgRestrictionEdit":[],"wgRestrictionMove":[],"wgF

```

In [3]:

```

1 # import required modules
2 from bs4 import BeautifulSoup
3
4 # scrape webpage
5 soup = BeautifulSoup(page.content, 'html.parser')
6
7 # display scrapped data
8 print(soup.prettify())

```

```

<!DOCTYPE html>
<html class="client-nojs" dir="ltr" lang="en">
<head>
  <meta charset="utf-8"/>
  <title>
    Paragraph - Wikipedia
  </title>
  <script>
    document.documentElement.className="client-js";RLCONF={"wgBreakFrame
s":!1,"wgSeparatorTransformTable":["",""],"wgDigitTransformTable":
["",""],"wgDefaultDateFormat":"dmy","wgMonthNames":["","January","Februar
y","March","April","May","June","July","August","September","October","No
vember","December"],"wgRequestId":"88b2811d-7640-4718-97d3-5fdcf9cd644
e","wgCSPNonce":!1,"wgCanonicalNamespace":"","wgCanonicalSpecialPageNam
e":!1,"wgNamespaceNumber":0,"wgPageName":"Paragraph","wgTitle":"Paragrap
h","wgCurRevisionId":1039583963,"wgRevisionId":1039583963,"wgArticleId":2
30752,"wgIsArticle":!0,"wgIsRedirect":!1,"wgAction":"view","wgUserName":n
ull,"wgUserGroups":["*"],"wgCategories":["Articles with limited geographi
c scope from June 2013","Articles containing Ancient Greek (to 1453)-lang

```

In [4]:

```

1 # EXTRACTING PARAGRAPH
2
3 list(soup.children)
4
5 # find all occurrence of p in HTML
6 # includes HTML tags
7 # Why p? Because we want paragraphs
8 print(soup.find_all('p'))
9
10 print('\n\n')
11 print("=====")
12 # return only text
13 # does not include HTML tags
14 print(soup.find_all('p')[0].get_text())
15 print("=====")

```

[<p>A <b>paragraph</b> (from the <a href="/wiki/Ancient\_Greek" title="Ancient Greek">Ancient Greek</a> <span lang="grc" title="Ancient Greek (to 1453)-language text">παράγραφος</span>, <i lang="grc-Latn" title="Ancient Greek (to 1453)-language text">parágraphos</i>, "<i>to write beside</i>") is a self-contained unit of discourse in <a href="/wiki/Writing" title="Writing">writing</a> dealing with a particular point or <a href="/wiki/Idea" title="Idea">idea</a>. A paragraph consists of one or more <a href="/wiki/Sentence\_(linguistics)" title="Sentence (linguistics)">sentences</a>. <sup class="reference" id="cite\_ref-UNC\_1-0"><a href="#cite\_note-UNC-1">[1]</a></sup> Though not required by the syntax of any language, paragraphs are usually an expected part of formal writing, used to organize longer <a href="/wiki/Prose" title="Prose">prose</a>.<sup class="noprint Inline-Template Template-Fact" style="white-space:nowrap;">[<i><a href="/wiki/Wikipedia:Citation\_needed" title="Wikipedia:Citation needed"><span title="This claim needs references to reliable sources. (January 2020)">citation needed</span></a></i>]</sup></p>, <p>The oldest classical Greek and Latin writing had little or no space between words and could be written in <a href="/wiki/Boustrophedon" title="Boustrophedon">boustrophedon</a> (alternating directions). Over time

In [5]:

```

1 # EXTRACTING CUSTOMIZED TAG CONTENTS
2
3 object = soup.find(id="Numbering")
4
5 # find tags
6 items = object.find_all(class_="anchor")
7 result = items[0]
8
9 # display tags
10 print(result.prettify())

```

```

<span class="anchor" id="Decimal_numbering">
</span>

```

In [6]:

```
1 # EXTRACTING IMAGE
2
3 image_tags = soup.findAll('img')
4 # print out image urls
5 for image_tag in image_tags:
6     print(image_tag.get('src'))
```

```
//upload.wikimedia.org/wikipedia/commons/thumb/b/bd/Ambox_globe_content.svg/
48px-Ambox_globe_content.svg.png
//upload.wikimedia.org/wikipedia/commons/thumb/5/59/United_States_Constituti
on.jpg/220px-United_States_Constitution.jpg
//upload.wikimedia.org/wikipedia/commons/thumb/9/99/Wiktionary-logo-en-v2.sv
g/16px-Wiktionary-logo-en-v2.svg.png
//upload.wikimedia.org/wikipedia/en/thumb/9/96/Symbol_category_class.svg/16p
x-Symbol_category_class.svg.png
//en.wikipedia.org/wiki/Special:CentralAutoLogin/start?type=1x1
/static/images/footer/wikimedia-button.png
/static/images/footer/poweredby_mediawiki_88x31.png
```

In [7]:

```
1 #getting jpg images
2 import re
3 image_tags = soup.findAll('img', {'src':re.compile('.jpg')})
4 # print out image urls
5 for image_tag in image_tags:
6     print(image_tag['src']+'\n')
```

```
//upload.wikimedia.org/wikipedia/commons/thumb/5/59/United_States_Constituti
on.jpg/220px-United_States_Constitution.jpg
```

In [8]:

```
1 import urllib.request
2 urllib.request.urlretrieve("https://upload.wikimedia.org/wikipedia/commons/thumb/5/59/U
```

Out[8]:

```
('image1.jpg', <http.client.HTTPMessage at 0x18abef144f0>)
```

In [9]:

```
1 from PIL import Image
2
3 #read the image
4 im = Image.open("image1.jpg")
5
6 #show image
7 im.show()
```

In [10]:

```
1 # EXTRACTING TITLE
2 title = soup.find_all('title')
3 print(title[0].get_text())
```

Paragraph - Wikipedia

In [ ]:

```
1
```