

```
!pip install bs4
```

```
Collecting bs4
  Downloading bs4-0.0.2-py2.py3-none-any.whl (1.2 kB)
Requirement already satisfied: beautifulsoup4 in /usr/local/lib/python3.10/dist-packages (from bs4) (4.12.3)
Requirement already satisfied: soupsieve>1.2 in /usr/local/lib/python3.10/dist-packages (from beautifulsoup4->bs4) (2.5)
Installing collected packages: bs4
Successfully installed bs4-0.0.2
```

```
!pip install requests
```

```
Requirement already satisfied: requests in /usr/local/lib/python3.10/dist-packages (2.31.0)
Requirement already satisfied: charset-normalizer<4,>=2 in /usr/local/lib/python3.10/dist-packages (from requests) (3.3.2)
Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.10/dist-packages (from requests) (3.7)
Requirement already satisfied: urllib3<3,>=1.21.1 in /usr/local/lib/python3.10/dist-packages (from requests) (2.0.7)
Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.10/dist-packages (from requests) (2024.2.2)
```

```
from bs4 import BeautifulSoup as bs
import requests
import pandas as pd
```

```
URL = "https://www.amazon.in/Apple-iPhone-14-128GB-Midnight/product-reviews/B0BDHX8Z63/ref=cm_cr_dp_d_show_all_btm?ie=UTF8&reviewerType=a
```

```
HEADERS = {"User-Agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/96.0.4664.110 Safari/!
```

```
webpage = requests.get(URL,HEADERS)
webpage
```

```
<Response [200]>
```

```
type(webpage.content)
```

```
bytes
```

```
webpage.content
```

```

type=\ text/javascript> \>window.navmet.push({key:\ logo\ ,end:\new Date(),begin:window.navmet.tmp});</script>\n
id="nav-global-location-slot">\n <span id="nav-global-location-data-modal-action" class="a-declarative nav-progressive-
attribute" data-a-modal=\ '{&quot;width&quot;;:375,
&quot;closeButton&quot;:&quot;false&quot;, &quot;popoverLabel&quot;:&quot;Choose your location&quot;;, &quot;ajaxHeaders&quot;:
{&quot;anti-csrfToken-a2z&quot;:&quot;hBOKQH3o/Cy8eXBFfAu2n2+P85dZHHZMq1g4xRXBs5AAAAAGY1bh4AAAAAB&quot;}},
&quot;name&quot;:&quot;glow-modal&quot;;, &quot;url&quot;:&quot;/portal-migration/hz/glow/get-rendered-address-selections?
deviceType&#x3D;desktop&amp;pageType&#x3D;CustomerReviews&amp;storeContext&#x3D;NoStoreName&amp;actionSource&#x3D;desktop-
modal&quot;;, &quot;footer&quot;:null,&quot;header&quot;:&quot;Choose your location&quot;}}' data-action="a-modal">\n
id="nav-global-location-popover-link" class="nav-a nav-a-2 a-popover-trigger a-declarative nav-progressive-attribute"
tabindex="0">\n <div class="nav-sprite nav-progressive-attribute" id="nav-packard-glow-loc-icon"></div>\n
<div id="glow-ingress-block">\n <span class="nav-line-1 nav-progressive-content" id="glow-ingress-line1">\n

```

```
soup = bs(webpage.content, 'html.parser')
```

```

soup
cache")||"";d=0<d.indexOf("cloudfront")?"c":0<d.indexOf("akamai")?"a":0<d.indexOf("fastly")?"f":"u";if(!l.ok)throw c.l=r(e-
b),c.status=1.status,c.sy=d+".2023-05-05",v(d,c),c;l={name:a,duration:e-b};e=m.getEntriesByName(a);k(1===e.length?
e[0]:1,d);return{cdn:d,url:a}},function(a){c.message=a.message;c.sy="u.2023-05-05";v("u",
c);throw a;}}function v(a,c){try{var d=new URL(c.src)}catch(e){throw e;var l=c.status;"u"===a?w(d,l).then(function(a)
{a.forEach(function(a){c.sy=a+".2023-05-05";b(c)}):b(c)}function w(a,c){var b=[];a=[y(a,"f"),y(a,"c"),y(a,"a")];return
g.all(a.map(D)).then(function(a){a.forEach(function(a){"fulfilled"===a.status?
c&&a.value.statusCode===c&&b.push(a.value.cdn):c===z&&b.push(a.reason)});return 0<b.length?b:["u"]})function D(a){return
a.then(function(a){return{value:a,status:"fulfilled"}}),function(a){return{reason:a,
status:"rejected"}})}function y(a,c){a.hostname=E[c];return fetch(a).then(function(a)
{return{cdn:c,statusCode:a.status}}).catch(function(a){n(a,"WARN");throw c;})function F(){for(var a=new RegExp("^https://(.*)
(images|ssl-images|media)-amazon.(?:com|cn)|"+d.location.hostname+"/images/", "i"),c=
-),b=0,g="",e,f,h=m.getEntriesByType("resource"),k=h.length-1;0<k;k-
-){e=h[k],0<e.transferSize&&e.transferSize>=e.encodedBodySize&&(e=a.exec(String(h[k].name)))&&3===e.length&&(e=e[1],f=c[e]=
(c[e]||0)+1,f>
b&&(g=e,b=f));return g}var C=navigator.userAgent,r=Math.round,m=d.performance,B={s:h.domain,u:d.location.pathname,tz:C},E=
{a:"a.media-amazon.com",c:"dk9ps7goqeef.cloudfront.net",f:"f.media-
amazon.com"},G=d.URLSearchParams&&d.fetch;m&&"function"===typeof m.getEntriesByName&&"function"===typeof
m.getEntriesByType&&"function"===typeof m.now&&0<C.toLowerCase().indexOf("firefox")&&G?function(){var a=F()||"m.media-
amazon.com";u("https://"+a+"/images/G/01/msa/vowels/metrics.jpg?"+p({time:+new Date,rand:r(1E6*
Math.random())}.toString()))).then(function(a){var c="STID"+r(1E6*Math.random()).toString()+"-"+new Date;return
u("https://"+a+"/images/G/01/msa/vowels/metrics._"+c+".jpg")}).then(function(c){c=c.cdn;t("cdn:"+c,1);var
b=m.getEntriesByType("resource");if(b===z||0>=b.length)c=0;else{var
d="https://"+a+"/images/",e,g=0;for(e=0;e<b.length&&3>g;e++){var f=b[e];var
h=f.name;0<f.transferSize&&f.transferSize>=f.encodedBodySize&&0===h.indexOf(d)&&1
(0<h.indexOf("/images/G/01/msa/vowels/metrics"))&&(k(f,c),
g++)}c=g}t("resourceCount",c)},function(a){t("resourceError",1);a instanceof TypeError&&a.message&&a.message.includes("Failed
to fetch")?n(a,"WARN"):n(a,"ERROR")})():(t("unsupportedBrowser",1)}),4E3));"loading"!==h.readyState?
k(v,1E3):d.addEventListener&&d.addEventListener("DOMContentLoaded",function(){k(v,1E3)});t("registered",1)})(window,document);
});
</script>
<script>
(window.AmazonUIPageJS ? AmazonUIPageJS : P).when('afterLoad').execute(function() {
  (window.AmazonUIPageJS ? AmazonUIPageJS : P).load.js('https://m.media-amazon.com/images/I/31ULjw05G7L.js?
AUIClients/AmazonLightsaberPageAssets');
});
</script>
<!-- sp:end-feature:configured-sitewide-assets -->
<!-- sp:feature:customer-behavior-js -->
<script type="text/javascript">if (window.ue && ue.tag) { ue.tag('FWCIMEnabled'); }</script>
<script>
(window.AmazonUIPageJS ? AmazonUIPageJS : P).when('afterLoad').execute(function() {
  (window.AmazonUIPageJS ? AmazonUIPageJS : P).load.js('https://m.media-amazon.com/images/I/81MTK5Efc4L.js?
AUIClients/FWCIMAssets');
});
</script>
<!-- sp:end-feature:customer-behavior-js -->
<!-- sp:feature:csm:body-close -->
<!-- sp:end-feature:csm:body-close -->
</img></div></body></html>
<!--
      ._.< (MEOW)
      \_/_
      ~~~~~~
<!--
sp:eh:LfWf/z1cghCbsNr/buDHnFcRqCPRvTm5fSN/RukqSMS2CpT0WDJH/s14y2sczPa+i9r5c3UDQ/LEXoqAjlZkeT5fJniE7IvcY4AGzXvG8GdCAEaYjTAADW6lq
-->

```

```

names = soup.find_all('span', class_='a-profile-name')
names

```

```

[<span class="a-profile-name">Prasanna</span>,
<span class="a-profile-name">Placeholder</span>,
<span class="a-profile-name">Prasanna</span>,
<span class="a-profile-name">Vaishnavi Nelabotla</span>,
<span class="a-profile-name">Vaishnavi Nelabotla</span>,
<span class="a-profile-name">Jayakrishnan</span>,
<span class="a-profile-name">Marvellous </span>,
<span class="a-profile-name">Marvellous </span>,
<span class="a-profile-name">Hariharan Balakrishnan</span>,

```

```

<span class="a-profile-name">Amazon Customer</span>,
<span class="a-profile-name">Phone is absolutely perfect </span>,
<span class="a-profile-name">Unique</span>,
<span class="a-profile-name">MWO SK SINGH</span>,
<span class="a-profile-name">Ranjith</span>]

cust_name = []
for i in range(len(names)):
    cust_name.append(names[i].get_text())
cust_name

['Prasanna',
 'Placeholder',
 'Prasanna',
 'Vaishnavi Nelabotla',
 'Vaishnavi Nelabotla',
 'Jayakrishnan',
 'Marvellous ',
 'Marvellous ',
 'Hariharan Balakrishnan',
 'Amazon Customer',
 'Phone is absolutely perfect ',
 'Unique',
 'MWO SK SINGH',
 'Ranjith']

title = soup.find_all('a',class_='review-title-content')
title

[<a class="a-size-base a-link-normal review-title a-color-base review-title-content a-text-bold" data-hook="review-title"
href="/gp/customer-reviews/R3QN7WHCT1NEQA?ASIN=B0BDHX8Z63"><i class="a-icon a-icon-star a-star-5 review-rating" data-hook="review-
star-rating"><span class="a-icon-alt">5.0 out of 5 stars</span></i><span class="a-letter-space"></span>
<span>Exceeding my expectation. Go for it.</span>
</a>,
<a class="a-size-base a-link-normal review-title a-color-base review-title-content a-text-bold" data-hook="review-title"
href="/gp/customer-reviews/R30Q0WNRQPM0PW?ASIN=B0BDHX8Z63"><i class="a-icon a-icon-star a-star-5 review-rating" data-hook="review-
star-rating"><span class="a-icon-alt">5.0 out of 5 stars</span></i><span class="a-letter-space"></span>
<span>Loved it ❤️</span>
</a>,
<a class="a-size-base a-link-normal review-title a-color-base review-title-content a-text-bold" data-hook="review-title"
href="/gp/customer-reviews/R26S7FGQM0SOKO?ASIN=B0BDHX8Z63"><i class="a-icon a-icon-star a-star-4 review-rating" data-hook="review-
star-rating"><span class="a-icon-alt">4.0 out of 5 stars</span></i><span class="a-letter-space"></span>
<span>It's visually appealing and upgraded device, surpassing my old iPhone 12</span>
</a>,
<a class="a-size-base a-link-normal review-title a-color-base review-title-content a-text-bold" data-hook="review-title"
href="/gp/customer-reviews/R12ZUDP5DZXS2F?ASIN=B0BDHX8Z63"><i class="a-icon a-icon-star a-star-5 review-rating" data-hook="review-
star-rating"><span class="a-icon-alt">5.0 out of 5 stars</span></i><span class="a-letter-space"></span>
<span>iPhone 14</span>
</a>,
<a class="a-size-base a-link-normal review-title a-color-base review-title-content a-text-bold" data-hook="review-title"
href="/gp/customer-reviews/R1YGY33MLHE4C7?ASIN=B0BDHX8Z63"><i class="a-icon a-icon-star a-star-5 review-rating" data-hook="review-
star-rating"><span class="a-icon-alt">5.0 out of 5 stars</span></i><span class="a-letter-space"></span>
<span>Worthy gift for better half</span>
</a>,
<a class="a-size-base a-link-normal review-title a-color-base review-title-content a-text-bold" data-hook="review-title"
href="/gp/customer-reviews/R1U1QE8CCFN404?ASIN=B0BDHX8Z63"><i class="a-icon a-icon-star a-star-5 review-rating" data-hook="review-
star-rating"><span class="a-icon-alt">5.0 out of 5 stars</span></i><span class="a-letter-space"></span>
<span>Excellent product</span>
</a>,
<a class="a-size-base a-link-normal review-title a-color-base review-title-content a-text-bold" data-hook="review-title"
href="/gp/customer-reviews/R1PDHLRJSMAQIF?ASIN=B0BDHX8Z63"><i class="a-icon a-icon-star a-star-5 review-rating" data-hook="review-
star-rating"><span class="a-icon-alt">5.0 out of 5 stars</span></i><span class="a-letter-space"></span>
<span>Be care full when package received</span>
</a>,
<a class="a-size-base a-link-normal review-title a-color-base review-title-content a-text-bold" data-hook="review-title"
href="/gp/customer-reviews/R1XJEZKH9GYPMR?ASIN=B0BDHX8Z63"><i class="a-icon a-icon-star a-star-4 review-rating" data-hook="review-
star-rating"><span class="a-icon-alt">4.0 out of 5 stars</span></i><span class="a-letter-space"></span>
<span>Performance is good but battery performance</span>
</a>,
<a class="a-size-base a-link-normal review-title a-color-base review-title-content a-text-bold" data-hook="review-title"
href="/gp/customer-reviews/R30MKJNPTNZN09?ASIN=B0BDHX8Z63"><i class="a-icon a-icon-star a-star-4 review-rating" data-hook="review-
star-rating"><span class="a-icon-alt">4.0 out of 5 stars</span></i><span class="a-letter-space"></span>
<span>Review</span>
</a>,
<a class="a-size-base a-link-normal review-title a-color-base review-title-content a-text-bold" data-hook="review-title"
href="/gp/customer-reviews/R2Q3KCLUQ7X3CV?ASIN=B0BDHX8Z63"><i class="a-icon a-icon-star a-star-4 review-rating" data-hook="review-
star-rating"><span class="a-icon-alt">4.0 out of 5 stars</span></i><span class="a-letter-space"></span>
<span>Apple product. That's all</span>
</a>]

review_title = []
for i in range(0,len(title)):
    review_title.append(title[i].get_text())
review_title

```



```
['5.0 out of 5 stars\nExceeding my expectation. Go for it.\n',  
'5.0 out of 5 stars\nLoved it ❤️\n',  
"4.0 out of 5 stars\nIt's visually appealing and upgraded device, surpassing my old iPhone 12\n",  
'5.0 out of 5 stars\niPhone 14\n',  
'5.0 out of 5 stars\nWorthy gift for better half\n',  
'5.0 out of 5 stars\nExcellent product\n',  
'5.0 out of 5 stars\nBe care full when package received\n',  
'4.0 out of 5 stars\nPerformance is good but battery performance\n',  
'4.0 out of 5 stars\nReview\n',  
"4.0 out of 5 stars\nApple product. That's all\n"]
```

