

```
In [43]: from bs4 import BeautifulSoup as bs
import requests
```

```
In [44]: link="https://www.amazon.in/Renewed-OnePlus-Mirror-Black-Storage/product-reviews/B07KM
```

```
In [45]: page=requests.get(link)
```

```
In [46]: page
```

```
Out[46]: <Response [200]>
```

```
In [47]: soup=bs(page.content,"html.parser")
```

```
In [52]: names=soup.find_all("span",class_="a-profile-name")
```

```
In [53]: len(names)
```

```
Out[53]: 13
```

```
In [56]: cust_name=[]
for i in range(0,len(names)):
    cust_name.append(names[i].get_text())
cust_name
```

```
Out[56]: ['Hatim block wala',
'Madhu',
'Madhu',
'Himanshu R.',
'Hatim block wala',
'Amit Shriniwas Harel',
'pritesh',
'vamsi krishna',
'vamsi krishna',
'AJ',
'raval jil',
'Udit Awasthi',
'Rohit Bisht']
```

```
In [58]: cust_name.pop(0)
```

```
Out[58]: 'Hatim block wala'
```

```
In [59]: cust_name.pop(0)
```

```
Out[59]: 'Madhu'
```

```
In [96]: cust_name.pop(5)
```

```
Out[96]: 'vamsi krishna'
```

```
In [97]: cust_name
```

```
Out[97]: ['Madhu',  
          'Himanshu R.',  
          'Hatim block wala',  
          'Amit Shriniwas Harel',  
          'pritesh',  
          'vamsi krishna',  
          'AJ',  
          'raval jil',  
          'Udit Awasthi',  
          'Rohit Bisht']
```

```
In [98]: title=soup.find_all("a",class_="review-title-content")
```

```
In [99]: title
```

```
Out[99]: [

```

```
In [100... review_title=[]
for i in range(0,len(title)):
    review_title.append(title[i].get_text())
review_title
```

```
Out[100]: ['\nAbove average But satisfied.\n',
           '\nIt's ok\n',
           '\nVice product good to go for purchase if you like\n',
           '\nGetting duplicate charger with phone...\n',
           '\nI didn't get good charger... Phone is not charging please do something\n',
           '\nBad phone\n',
           '\nDisplay\n',
           '\nBad product\n',
           '\nCould have been better\n',
           '\nExcellent\n']
```

```
In [101... review_title[:]=[titles.lstrip('\n') for titles in review_title]
review_title
```

```
Out[101]: ['Above average But satisfied.\n',
           'It's ok\n',
           'Vice product good to go for purchase if you like\n',
           'Getting duplicate charger with phone...\n',
           'I didn't get good charger... Phone is not charging please do something\n',
           'Bad phone\n',
           'Display\n',
           'Bad product\n',
           'Could have been better\n',
           'Excellent\n']
```

```
In [102... review_title[:]=[titles.rstrip('\n') for titles in review_title]
review_title
```

```
Out[102]: ['Above average But satisfied.',
           'It's ok',
           'Vice product good to go for purchase if you like',
           'Getting duplicate charger with phone...',
           'I didn't get good charger... Phone is not charging please do something',
           'Bad phone',
           'Display',
           'Bad product',
           'Could have been better',
           'Excellent']
```

```
In [103... rating=soup.find_all("i",class_="review-rating")
rating
```

```
Out[103]: [<i class="a-icon a-icon-star a-star-4 review-rating" data-hook="review-star-rating-v
iew-point"><span class="a-icon-alt">4.0 out of 5 stars</span></i>,
  <i class="a-icon a-icon-star a-star-3 review-rating" data-hook="review-star-rating-v
iew-point"><span class="a-icon-alt">3.0 out of 5 stars</span></i>,
  <i class="a-icon a-icon-star a-star-3 review-rating" data-hook="review-star-rating">
<span class="a-icon-alt">3.0 out of 5 stars</span></i>,
  <i class="a-icon a-icon-star a-star-3 review-rating" data-hook="review-star-rating">
<span class="a-icon-alt">3.0 out of 5 stars</span></i>,
  <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>,
  <i class="a-icon a-icon-star a-star-3 review-rating" data-hook="review-star-rating">
<span class="a-icon-alt">3.0 out of 5 stars</span></i>,
  <i class="a-icon a-icon-star a-star-3 review-rating" data-hook="review-star-rating">
<span class="a-icon-alt">3.0 out of 5 stars</span></i>,
  <i class="a-icon a-icon-star a-star-3 review-rating" data-hook="review-star-rating">
<span class="a-icon-alt">3.0 out of 5 stars</span></i>,
  <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>,
  <i class="a-icon a-icon-star a-star-2 review-rating" data-hook="review-star-rating">
<span class="a-icon-alt">2.0 out of 5 stars</span></i>,
  <i class="a-icon a-icon-star a-star-2 review-rating" data-hook="review-star-rating">
<span class="a-icon-alt">2.0 out of 5 stars</span></i>,
  <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>]
```

```
In [104... rate=[]
for i in range(0,len(rating)):
    rate.append(rating[i].get_text())
rate
```

```
Out[104]: ['4.0 out of 5 stars',
  '3.0 out of 5 stars',
  '3.0 out of 5 stars',
  '3.0 out of 5 stars',
  '4.0 out of 5 stars',
  '3.0 out of 5 stars',
  '3.0 out of 5 stars',
  '3.0 out of 5 stars',
  '4.0 out of 5 stars',
  '2.0 out of 5 stars',
  '2.0 out of 5 stars',
  '5.0 out of 5 stars']
```

```
In [105... len(rate)
```

```
Out[105]: 12
```

```
In [106... rate.pop(0)
```

```
Out[106]: '4.0 out of 5 stars'
```

```
In [107... rate.pop(0)
```

```
Out[107]: '3.0 out of 5 stars'
```

```
In [108... rate
```

```
Out[108]: ['3.0 out of 5 stars',  
          '3.0 out of 5 stars',  
          '4.0 out of 5 stars',  
          '3.0 out of 5 stars',  
          '3.0 out of 5 stars',  
          '3.0 out of 5 stars',  
          '4.0 out of 5 stars',  
          '2.0 out of 5 stars',  
          '2.0 out of 5 stars',  
          '5.0 out of 5 stars']
```

```
In [109... review=soup.find_all("span",{"data-hook":"review-body"})  
review
```

```

Out[109]: [<span class="a-size-base review-text review-text-content" data-hook="review-body">
  <span>I got realme adapter charger. And d back of this phone is not original . It's
  a second quality. Since my back pannel got broken so easily due to light press on it.
  <br/><br/> They make or repair an old phone into completely new with software and har
  dware. And sometimes we don't know which part is original or 2nd quality product.<br/
  ><br/> Luckily I don't have any scratches on my phone.<br/><br/>After Changing my scre
  en guard it completely looks like new.<br/><br/>Front cam doesn't looks good . Someti
  mes I gets doubt is the cam is one plus original cam or replaced by some other mobil
  e.<br/><br/>My phone costs 19k it is some what high . 15k or 16k Will be d reasonable
  and correct from both ends.</span>
  </span>,
  <span class="a-size-base review-text review-text-content" data-hook="review-body">
  <span>The charger got disfunction after 6 months only.</span>
  </span>,
  <span class="a-size-base review-text review-text-content" data-hook="review-body">
  <span>NA</span>
  </span>,
  <span class="a-size-base review-text review-text-content" data-hook="review-body"><d
  iv class="a-section a-spacing-small a-spacing-top-mini video-block" id="video-block-R
  12G41HX32YY2L">
    <div class="cr-video-desktop cr-video-desktop-placeholder" data-closed-captions="en,
    https://m.media-amazon.com/images/S/vse-vms-closed-captions-artifact-eu-west-1-prod/c
    losedCaptions/61b472cf-5b24-4b3b-bc70-d97e46e7af4f.vtt" data-review-id="R12G41HX32YY2
    L" data-thumbnail-url="https://m.media-amazon.com/images/W/IMAGERENDERING_521856-T1/i
    mages/I/51zu6wtoVfL._SY256._SY256.jpg" data-video-url="https://m.media-amazon.com/ima
    ges/S/vse-vms-transcoding-artifact-eu-west-1-prod/86ee5fc0-ed3d-4ec3-832e-06a7c815204
    8/default.jobtemplate.hls.m3u8" id="review-video-id-R12G41HX32YY2L">
      <div class="cr-media-status-container">
        <span class="a-spinner a-spinner-medium cr-media-spinner"></span>
        <span class="a-color-inverse cr-media-error-msg">
          The media could not be loaded.
        </span>
      </div>
    </div>
    </div><input class="video-url" name="" type="hidden" value="https://m.media-amazon.c
    om/images/S/vse-vms-transcoding-artifact-eu-west-1-prod/86ee5fc0-ed3d-4ec3-832e-06a7c
    8152048/default.jobtemplate.mp4.480.mp4"><input class="video-slate-img-url" name="" t
    ype="hidden" value="https://m.media-amazon.com/images/W/IMAGERENDERING_521856-T1/ima
    ges/I/51zu6wtoVfL._SY256._SY256.jpg">
    <span> Nice phone but accessories are duplicate...</span>
    </input></input></span>,
    <span class="a-size-base review-text review-text-content" data-hook="review-body">
    <span>Third class charger.. Scratches on screen... Look like secondhand</span>
    </span>,
    <span class="a-size-base review-text review-text-content" data-hook="review-body"><d
    iv class="a-section a-spacing-small a-spacing-top-mini video-block" id="video-block-R
    2309ZSBFITL1R">
      <div class="cr-video-desktop cr-video-desktop-placeholder" data-closed-captions="en,
      https://m.media-amazon.com/images/S/vse-vms-closed-captions-artifact-eu-west-1-prod/c
      losedCaptions/a0df0f12-8e59-4905-982c-f4b482a713dd.vtt" data-review-id="R2309ZSBFITL1
      R" data-thumbnail-url="https://m.media-amazon.com/images/W/IMAGERENDERING_521856-T1/i
      mages/I/61DWY8oNCyL._SY256._SY256.jpg" data-video-url="https://m.media-amazon.com/ima
      ges/S/vse-vms-transcoding-artifact-eu-west-1-prod/9e46abea-daab-48c4-9bcf-76f6badbc29
      d/default.jobtemplate.hls.m3u8" id="review-video-id-R2309ZSBFITL1R">
        <div class="cr-media-status-container">
          <span class="a-spinner a-spinner-medium cr-media-spinner"></span>
          <span class="a-color-inverse cr-media-error-msg">
            The media could not be loaded.
          </span>
        </div>
      </div>
    </div>
  ]

```

```
</div>
</div><input class="video-url" name="" type="hidden" value="https://m.media-amazon.com/images/S/vse-vms-transcoding-artifact-eu-west-1-prod/9e46abea-daab-48c4-9bcf-76f6badbc29d/default.jobtemplate.mp4.480.mp4"/><input class="video-slate-img-url" name="" type="hidden" value="https://m.media-amazon.com/images/W/IMAGERENDERING_521856-T1/images/I/61DWY8oNCyL._SY256._SY256.jpg"/></span>,
<span class="a-size-base review-text review-text-content" data-hook="review-body">
<span>Overall phone is absolutely fantastic but the only thing which I'm facing issue with display there is a white vertical line coming in the middle of screen but it only visible if the bright is very low which does not affect any quality.<br>And the second thing which I was to keep in front that sometimes screen starts auto-touching and phone starts operating automatically which actually affect everything and you have to restart the phone once to fix it.</br></span>
</span>,
<span class="a-size-base review-text review-text-content" data-hook="review-body">
<span>Only minor issues in phone regarding speaker.<br>Connectivity issue with sim card .<br>Waiting for Amazon technical guy or returning it</span>
</span>,
<span class="a-size-base review-text review-text-content" data-hook="review-body">
<span>Could have been better inderd</span>
</span>,
<span class="a-size-base review-text review-text-content" data-hook="review-body">
<span>Excellent</span>
</span>]
```

```
In [110... review_content=[]
for i in range(0,len(review)):
    review_content.append(review[i].get_text())
review_content
```

```
Out[110]: ["\nI got realme adapter charger. And d back of this phone is not original . It's a s
econd quality. Since my back pannel got broken so easily due to light press on it. Th
ey make or repair an old phone into completely new with software and hardware. And so
metimes we don't know which part is original or 2nd quality product.Luckily I don't h
ave any scratches on my phone.After Changing my screen guard it completely looks like
new.Front cam doesn't looks good . Sometimes I gets doubt is the cam is one plus orig
inal cam or replaced by some other mobile.My phone costs 19k it is some what high . 1
5k or 16k Will be d reasonable and correct from both ends.\n",
'\nThe charger got disfunction after 6 months only.\n',
'\nNA\n',
'\n\n\n\n\nThe media could not be loaded.\n\n\n\n\n
\n\n\n\n\nNice phone but accessories are duplicate...\n',
'\nThird class charger.. Scratches on screen... Look like secondhand\n',
'\n\n\n\n\nThe media could not be loaded.\n\n\n\n\n
\n',
"\nOverall phone is absolutely fantastic but the only thing which I'm facing issue w
ith display there is a white vertical line coming in the middle of screen but it only
visible if the bright is very low which does not affect any quality.And the second th
ing which I was to keep in front that sometimes screen starts auto-touching and phone
starts operating automatically which actually affect everything and you have to resta
rt the phone once to fix it.\n",
'\nOnly minor issues in phone regarding speaker.Connectivity issue with sim card .Wa
iting for Amazon technical guy or returning it\n',
'\nCould have been better inderd\n',
'\nExcellent\n']
```

```
In [111... review_content[:]=[reviews.lstrip('\n') for reviews in review_content]
review_content
```



```
Out[111]: ["I got realme adapter charger. And d back of this phone is not original . It's a second quality. Since my back pannel got broken so easily due to light press on it. They make or repair an old phone into completely new with software and hardware. And sometimes we don't know which part is original or 2nd quality product.Luckily I don't have any scratches on my phone.After Changing my screen guard it completely looks like new.Front cam doesn't looks good . Sometimes I gets doubt is the cam is one plus original cam or replaced by some other mobile.My phone costs 19k it is some what high . 15k or 16k Will be d reasonable and correct from both ends.\n",
  'The charger got disfunction after 6 months only.\n',
  'NA\n',
  '
    The media could not be loaded.\n
  \n\n\n\n\xa0Nice phone but accessories are duplicate...\n',
  'Third class charger.. Scratches on screen... Look like secondhand\n',
  '
    The media could not be loaded.\n
  \n\n\n',
  "Overall phone is absolutely fantastic but the only thing which I'm facing issue with display there is a white vertical line coming in the middle of screen but it only visible if the bright is very low which does not affect any quality.And the second thing which I was to keep in front that sometimes screen starts auto-touching and phone starts operating automatically which actually affect everything and you have to restart the phone once to fix it.\n",
  'Only minor issues in phone regarding speaker.Connectivity issue with sim card .Waiting for Amazon technical guy or returning it\n',
  'Could have been better inderd\n',
  'Excellent\n']
```

```
In [112... review_content[:]=[reviews.rstrip('\n') for reviews in review_content]
review_content
```

[illegible]

```
In [113]: len(review_content)
```

Out[113]: 10

```
In [114... cust_name
review title
```

```
rate
review_content
```

```
Out[114]: ["I got realme adapter charger. And d back of this phone is not original . It's a second quality. Since my back pannel got broken so easily due to light press on it. They make or repair an old phone into completely new with software and hardware. And sometimes we don't know which part is original or 2nd quality product.Luckily I don't have any scratches on my phone.After Changing my screen guard it completely looks like new.Front cam doesn't looks good . Sometimes I gets doubt is the cam is one plus original cam or replaced by some other mobile.My phone costs 19k it is somewhat high . 15k or 16k Will be d reasonable and correct from both ends.",  
    'The charger got disfunction after 6 months only.',  
    'NA',  
    '\n\n\n\n\\xa0Nic  
e phone but accessories are duplicate...',  
    'Third class charger.. Scratches on screen... Look like secondhand',  
    '\n',  
    'The media could not be loaded.\n',  
    "Overall phone is absolutely fantastic but the only thing which I'm facing issue with h display there is a white vertical line coming in the middle of screen but it only visible if the bright is very low which does not affect any quality.And the second thing which I was to keep in front that sometimes screen starts auto-touching and phone starts operating automatically which actually affect everything and you have to restart the phone once to fix it.",  
    'Only minor issues in phone regarding speaker.Connectivity issue with sim card .Waiting for Amazon technical guy or returning it',  
    'Could have been better indeed',  
    'Excellent']
```

```
In [115]: import pandas as pd
```

```
In [116... df=pd.DataFrame()
```

In [117... df

Out[117]: —

```
In [118... df['Customer Name']=cust_name
```

In [119...	df
------------	----

Out[119]:

Customer Name	
0	Madhu
1	Himanshu R.
2	Hatim block wala
3	Amit Shriniwas Harel
4	pritesh
5	vamsi krishna
6	AJ
7	raval jil
8	Udit Awasthi
9	Rohit Bisht

In [120...

```
df['Review title']=review_title
df['Ratings']=rate
df['Reviews']=review_content
```

In [121...

df

Out[121]:

	Customer Name	Review title	Ratings	Reviews
0	Madhu	Above average But satisfied.	3.0 out of 5 stars	I got realme adapter charger. And d back of th...
1	Himanshu R.	It's ok	3.0 out of 5 stars	The charger got disfunction after 6 months only.
2	Hatim block wala	Vice product good to go for purchase if you like	4.0 out of 5 stars	NA
3	Amit Shriniwas Harel	Getting duplicate charger with phone...	3.0 out of 5 stars	The media could not be loa...
4	pritesh	I didn't get good charger... Phone is not char...	3.0 out of 5 stars	Third class charger.. Scratches on screen... L...
5	vamsi krishna	Bad phone	3.0 out of 5 stars	The media could not be loa...
6	AJ	Display	4.0 out of 5 stars	Overall phone is absolutely fantastic but the ...
7	raval jil	Bad product	2.0 out of 5 stars	Only minor issues in phone regarding speaker.C...
8	Udit Awasthi	Could have been better	2.0 out of 5 stars	Could have been better inderd
9	Rohit Bisht	Excellent	5.0 out of 5 stars	Excellent

In [122...

```
df.to_csv("ProductReviews.csv",index=True)
```

In []: