In [11]: ▶|
```python
from bs4 import BeautifulSoup as bs
import requests
```

In [21]: ▶|
```python
link = "https://www.amazon.in/Maybelline-Poreless-Liquid-Foundation-Nat
```

In [22]: ▶|
```python
page = requests.get(link)
```

In [23]: ▶|
```python
page
```

Out[23]: <Response [200]>

In [24]: ▶|
```python
soup = bs(page.content, "html.parser")
```

In [26]: ▶|
```python
names = soup.find_all("span", class_="a-profile-name")
```

In [27]: ▶|
```python
len(names)
```

Out[27]: 15

In [28]: ▶|
```python
cust_name=[]
for i in range(0, len(names)):
    cust_name.append(names[i].get_text())
cust_name
```

Out[28]: ['Titli sarkhel',
 'Riya Panjwani',
 'Titli sarkhel',
 'Merrygurl',
 'Merrygurl',
 'Rashmi',
 'Riya Panjwani',
 'Parul',
 'Parul',
 'Priyahariharan',
 'Supreetha',
 'Chirag saksham',
 'Deepika',
 'Deepika',
 'Priti Singh Tomar']

In [29]: ▶|
```python
cust_name.pop(0)
```

Out[29]: 'Titli sarkhel'

In [30]: ▶|
```python
cust_name.pop(3)
```

Out[30]: 'Merrygurl'

In [31]: ▶| cust_name.pop(8)

Out[31]: 'Supreetha'

In [32]: ▶| cust_name

Out[32]: ['Riya Panjwani',
          'Titli sarkhel',
          'Merrygurl',
          'Rashmi',
          'Riya Panjwani',
          'Parul',
          'Parul',
          'Priyahariharan',
          'Chirag saksham',
          'Deepika',
          'Deepika',
          'Priti Singh Tomar']

In [33]: ▶| title=soup.find_all("a", class_="review-title-content")

```
In [34]:  ▶  title
```

Out[34]: [<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/R2R4DJCPE3KO1B?ASIN=B07L3R68FM"><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</i></
span>
Best foundation
,
<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/R1U1IMTCF707NC?ASIN=B07L3R68FM"><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</i></
span>
Good product
,
<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/R3O4R4ULWDJ2IO?ASIN=B07L3R68FM"><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</i></
span>
My go to foundation
,
<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/RBW1SO2BCYWQM?ASIN=B07L3R68FM"><i class="a-icon a-icon-star a
-star-3 review-rating" data-hook="review-star-rating"><span class="a-i
con-alt">3.0 out of 5 stars</i></s
pan>
Quality
,
<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/R3HYGIBMQXWOGH?ASIN=B07L3R68FM"><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</i></
span>
Just wow 🫣
,
<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/R3KRETGMYYH23A?ASIN=B07L3R68FM"><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</i></
span>
This shade is not for Indian fair skin.... its very pale... wo
n't fit... go for bit darker ones...
,
<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/R3GNN44EBA8L8X?ASIN=B07L3R68FM"><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</i></
span>
Worth purchasing
,
<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/R3W3F5PFI05YSY?ASIN=B07L3R68FM"><i class="a-icon a-icon-star
a-star-1 review-rating" data-hook="review-star-rating"><span class="a-

```
icon-alt">1.0 out of 5 stars</span></i><span class="a-letter-space"></
span>
<span>Fake 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/R3B2GFYF7ILIE6?ASIN=B07L3R68FM"><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>Price jada hai</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/R55X4MZU60CYR?ASIN=B07L3R68FM"><i class="a-icon a-icon-star a
-star-4 review-rating" data-hook="review-star-rating"><span class="a-i
con-alt">4.0 out of 5 stars</span></i><span class="a-letter-space"></s
pan>
<span>Achha hai</span>
</a>]
```

In [35]:
```python
review_title=[]
for i in range(0, len(title)):
    review_title.append(title[i].get_text())
review_title
```

Out[35]:
```
['5.0 out of 5 stars\nBest foundation\n',
 '4.0 out of 5 stars\nGood product\n',
 '5.0 out of 5 stars\nMy go to foundation\n',
 '3.0 out of 5 stars\nQuality\n',
 '5.0 out of 5 stars\nJust wow 😳\n',
 "4.0 out of 5 stars\nThis shade is not for Indian fair skin.... its v
ery pale... won't fit... go for bit darker ones...\n",
 '5.0 out of 5 stars\nWorth purchasing\n',
 '1.0 out of 5 stars\nFake product\n',
 '4.0 out of 5 stars\nPrice jada hai\n',
 '4.0 out of 5 stars\nAchha hai\n']
```

In [36]:
```python
review_title[:]=[titles.lstrip('\n') for titles in review_title]
review_title
```

Out[36]:
```
['5.0 out of 5 stars\nBest foundation\n',
 '4.0 out of 5 stars\nGood product\n',
 '5.0 out of 5 stars\nMy go to foundation\n',
 '3.0 out of 5 stars\nQuality\n',
 '5.0 out of 5 stars\nJust wow 😳\n',
 "4.0 out of 5 stars\nThis shade is not for Indian fair skin.... its v
ery pale... won't fit... go for bit darker ones...\n",
 '5.0 out of 5 stars\nWorth purchasing\n',
 '1.0 out of 5 stars\nFake product\n',
 '4.0 out of 5 stars\nPrice jada hai\n',
 '4.0 out of 5 stars\nAchha hai\n']
```

In [37]:

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

Out[37]:
```
['5.0 out of 5 stars\nBest foundation',
 '4.0 out of 5 stars\nGood product',
 '5.0 out of 5 stars\nMy go to foundation',
 '3.0 out of 5 stars\nQuality',
 '5.0 out of 5 stars\nJust wow 😳',
 "4.0 out of 5 stars\nThis shade is not for Indian fair skin.... its v
ery pale... won't fit... go for bit darker ones...",
 '5.0 out of 5 stars\nWorth purchasing',
 '1.0 out of 5 stars\nFake product',
 '4.0 out of 5 stars\nPrice jada hai',
 '4.0 out of 5 stars\nAchha hai']
```

In [38]:

```python
rating = soup.find_all("i", class_="review-rating")
rating
```

Out[38]:
```
[<i class="a-icon a-icon-star a-star-5 review-rating" data-hook="revie
w-star-rating-view-point"><span class="a-icon-alt">5.0 out of 5 stars
</span></i>,
 <i class="a-icon a-icon-star a-star-3 review-rating" data-hook="revie
w-star-rating-view-point"><span class="a-icon-alt">3.0 out of 5 stars
</span></i>,
 <i class="a-icon a-icon-star a-star-5 review-rating" data-hook="revie
w-star-rating"><span class="a-icon-alt">5.0 out of 5 stars</span></i>,
 <i class="a-icon a-icon-star a-star-4 review-rating" data-hook="revie
w-star-rating"><span class="a-icon-alt">4.0 out of 5 stars</span></i>,
 <i class="a-icon a-icon-star a-star-5 review-rating" data-hook="revie
w-star-rating"><span class="a-icon-alt">5.0 out of 5 stars</span></i>,
 <i class="a-icon a-icon-star a-star-3 review-rating" data-hook="revie
w-star-rating"><span class="a-icon-alt">3.0 out of 5 stars</span></i>,
 <i class="a-icon a-icon-star a-star-5 review-rating" data-hook="revie
w-star-rating"><span class="a-icon-alt">5.0 out of 5 stars</span></i>,
 <i class="a-icon a-icon-star a-star-4 review-rating" data-hook="revie
w-star-rating"><span class="a-icon-alt">4.0 out of 5 stars</span></i>,
 <i class="a-icon a-icon-star a-star-5 review-rating" data-hook="revie
w-star-rating"><span class="a-icon-alt">5.0 out of 5 stars</span></i>,
 <i class="a-icon a-icon-star a-star-1 review-rating" data-hook="revie
w-star-rating"><span class="a-icon-alt">1.0 out of 5 stars</span></i>,
 <i class="a-icon a-icon-star a-star-4 review-rating" data-hook="revie
w-star-rating"><span class="a-icon-alt">4.0 out of 5 stars</span></i>,
 <i class="a-icon a-icon-star a-star-4 review-rating" data-hook="revie
w-star-rating"><span class="a-icon-alt">4.0 out of 5 stars</span></i>]
```

In [39]: ▶
```python
rate=[]
for i in range(0, len(rating)):
    rate.append(rating[i].get_text())
rate
```

Out[39]: ['5.0 out of 5 stars',
 '3.0 out of 5 stars',
 '5.0 out of 5 stars',
 '4.0 out of 5 stars',
 '5.0 out of 5 stars',
 '3.0 out of 5 stars',
 '5.0 out of 5 stars',
 '4.0 out of 5 stars',
 '5.0 out of 5 stars',
 '1.0 out of 5 stars',
 '4.0 out of 5 stars',
 '4.0 out of 5 stars']

In [40]: ▶
```python
len(rate)
```

Out[40]: 12

In [41]: ▶
```python
rate.pop(0)
```

Out[41]: '5.0 out of 5 stars'

In [42]: ▶
```python
rate.pop(2)
```

Out[42]: '4.0 out of 5 stars'

In [43]: ▶
```python
rate
```

Out[43]: ['3.0 out of 5 stars',
 '5.0 out of 5 stars',
 '5.0 out of 5 stars',
 '3.0 out of 5 stars',
 '5.0 out of 5 stars',
 '4.0 out of 5 stars',
 '5.0 out of 5 stars',
 '1.0 out of 5 stars',
 '4.0 out of 5 stars',
 '4.0 out of 5 stars']

In [62]: ▶
```python
len(rate)
```

Out[62]: 10

In [44]:

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

Out[44]: [<span class="a-size-base review-text review-text-content" data-hook
="review-body">
One of the best foundation..it's so light weight and water resi
stance ❤
,
<span class="a-size-base review-text review-text-content" data-hook
="review-body">
128 is bit lighter than 220. Great coverage. But it gets oxidis
ed soon So a lighter shade is always better.
,
<span class="a-size-base review-text review-text-content" data-hook
="review-body">
Maybelline fit me - this one has been my go to foundation for i
guess 5-6 years now or more.. it never fails to amaze me as it is smoo
th on the skin..not at all patchy.. does not get oxidized on your ski
n.. is perfect for daily wear .. i just love this one and this little
tube lasts at least 3-4 months so it is a budget deal
,
<span class="a-size-base review-text review-text-content" data-hook
="review-body">
V nice quality.
,
<span class="a-size-base review-text review-text-content" data-hook
="review-body">
I tried so many products before nothing suited on my skin ... T
hen someone recommended me to try this Maybelline foundation. So i ord
ered it according to my fair skin, ivory 115 shade and seriously this
tiny cute foundation is superb and it didn't harm my skin at all and s
hade also matches my skin tone ... Must buy... Light, easy to apply an
d makes the skin soft 💯 💕
,
<span class="a-size-base review-text review-text-content" data-hook
="review-body">
Shade 115 is very pale for Indian fair skin... Good formula and
coverage tho...
,
<span class="a-size-base review-text review-text-content" data-hook
="review-body">
I bought it for my mom and she loved it.. Easy to blend and had
a shine on her face.
,
<span class="a-size-base review-text review-text-content" data-hook
="review-body">
Very clearly, it's a fake product. All the labellings are misma
tching and the shade also looks different than original. Very poor cop
y of original, you don't even get fooled by it for a second.
,
<span class="a-size-base review-text review-text-content" data-hook
="review-body">
Achha hai par quentity Kam hai, jada honi chahiye thi
,
<span class="a-size-base review-text review-text-content" data-hook
="review-body">
Bahut achha hai
]

In [45]:

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

Out[45]: ["\nOne of the best foundation..it's so light weight and water resistance ❤️\n",
 '\n128 is bit lighter than 220. Great coverage. But it gets oxidised soon So a lighter shade is always better.\n',
 '\nMaybelline fit me - this one has been my go to foundation for i guess 5-6 years now or more.. it never fails to amaze me as it is smooth on the skin..not at all patchy.. does not get oxidized on your skin.. is perfect for daily wear .. i just love this one and this little tube lasts at least 3-4 months so it is a budget deal\n',
 '\nV nice quality.\n',
 "\nI tried so many products before nothing suited on my skin ... Then someone recommended me to try this Maybelline foundation. So i ordered it according to my fair skin, ivory 115 shade and seriously this tiny cute foundation is superb and it didn't harm my skin at all and shade also matches my skin tone ... Must buy... Light, easy to apply and makes the skin soft 💯 💕\n",
 '\nShade 115 is very pale for Indian fair skin... Good formula and coverage tho...\n',
 '\nI bought it for my mom and she loved it.. Easy to blend and had a shine on her face.\n',
 "\nVery clearly, it's a fake product. All the labellings are mismatching and the shade also looks different than original. Very poor copy of original, you don't even get fooled by it for a second.\n",
 '\nAchha hai par quentity Kam hai, jada honi chahiye thi\n',
 '\nBahut achha hai\n']

In [46]:
```python
review_content[:] = [reviews.lstrip('\n') for reviews in review_content
review_content
```

Out[46]:
```
["One of the best foundation..it's so light weight and water resistanc
e ❤ \n",
 '128 is bit lighter than 220. Great coverage. But it gets oxidised so
on So a lighter shade is always better.\n',
 'Maybelline fit me - this one has been my go to foundation for i gues
s 5-6 years now or more.. it never fails to amaze me as it is smooth o
n the skin..not at all patchy.. does not get oxidized on your skin.. i
s perfect for daily wear .. i just love this one and this little tube
lasts at least 3-4 months so it is a budget deal\n',
 'V nice quality.\n',
 "I tried so many products before nothing suited on my skin ... Then s
omeone recommended me to try this Maybelline foundation. So i ordered
it according to my fair skin, ivory 115 shade and seriously this tiny
cute foundation is superb and it didn't harm my skin at all and shade
also matches my skin tone ... Must buy... Light, easy to apply and mak
es the skin soft 💯 💕 \n",
 'Shade 115 is very pale for Indian fair skin... Good formula and cove
rage tho...\n',
 'I bought it for my mom and she loved it.. Easy to blend and had a sh
ine on her face.\n',
 "Very clearly, it's a fake product. All the labellings are mismatchin
g and the shade also looks different than original. Very poor copy of
original, you don't even get fooled by it for a second.\n",
 'Achha hai par quentity Kam hai, jada honi chahiye thi\n',
 'Bahut achha hai\n']
```

In [48]:
```python
review_content[:] = [reviews.rstrip('\n') for reviews in review_content
review_content
```

Out[48]:
```
["One of the best foundation..it's so light weight and water resistanc
e ❤ ",
 '128 is bit lighter than 220. Great coverage. But it gets oxidised so
on So a lighter shade is always better.',
 'Maybelline fit me - this one has been my go to foundation for i gues
s 5-6 years now or more.. it never fails to amaze me as it is smooth o
n the skin..not at all patchy.. does not get oxidized on your skin.. i
s perfect for daily wear .. i just love this one and this little tube
lasts at least 3-4 months so it is a budget deal',
 'V nice quality.',
 "I tried so many products before nothing suited on my skin ... Then s
omeone recommended me to try this Maybelline foundation. So i ordered
it according to my fair skin, ivory 115 shade and seriously this tiny
cute foundation is superb and it didn't harm my skin at all and shade
also matches my skin tone ... Must buy... Light, easy to apply and mak
es the skin soft 💯 💕 ",
 'Shade 115 is very pale for Indian fair skin... Good formula and cove
rage tho...',
 'I bought it for my mom and she loved it.. Easy to blend and had a sh
ine on her face.',
 "Very clearly, it's a fake product. All the labellings are mismatchin
g and the shade also looks different than original. Very poor copy of
original, you don't even get fooled by it for a second.",
 'Achha hai par quentity Kam hai, jada honi chahiye thi',
 'Bahut achha hai']
```

In [49]: ▶ | `len(review_content)`

Out[49]: 10

In [50]: ▶ |
```
cust_name
review_title
rate
review_content
```

Out[50]: ["One of the best foundation..it's so light weight and water resistance ❤️",
 '128 is bit lighter than 220. Great coverage. But it gets oxidised so on So a lighter shade is always better.',
 'Maybelline fit me - this one has been my go to foundation for i guess 5-6 years now or more.. it never fails to amaze me as it is smooth on the skin..not at all patchy.. does not get oxidized on your skin.. is perfect for daily wear .. i just love this one and this little tube lasts at least 3-4 months so it is a budget deal',
 'V nice quality.',
 "I tried so many products before nothing suited on my skin ... Then someone recommended me to try this Maybelline foundation. So i ordered it according to my fair skin, ivory 115 shade and seriously this tiny cute foundation is superb and it didn't harm my skin at all and shade also matches my skin tone ... Must buy... Light, easy to apply and makes the skin soft 💯 💕",
 'Shade 115 is very pale for Indian fair skin... Good formula and coverage tho...',
 'I bought it for my mom and she loved it.. Easy to blend and had a shine on her face.',
 "Very clearly, it's a fake product. All the labellings are mismatching and the shade also looks different than original. Very poor copy of original, you don't even get fooled by it for a second.",
 'Achha hai par quentity Kam hai, jada honi chahiye thi',
 'Bahut achha hai']

In [51]: ▶ | `import pandas as pd`

In [52]: ▶ | `df = pd.DataFrame()`

In [53]: ▶ | `df`

Out[53]: ──

In [54]:

```python
df['Customer Name'] = cust_name
df
```

Out[54]:

	Customer Name
0	Riya Panjwani
1	Titli sarkhel
2	Merrygurl
3	Rashmi
4	Riya Panjwani
5	Parul
6	Parul
7	Priyahariharan
8	Chirag saksham
9	Deepika
10	Deepika
11	Priti Singh Tomar

```
In [59]:    df['Review title']=review_title
            df['Ratings']=rate
            df['Reviews']=review_content
```

```
---------------------------------------------------------------------------
-----
ValueError                                    Traceback (most recent call
last)
Cell In[59], line 1
----> 1 df['Review title']=review_title
      2 df['Ratings']=rate
      3 df['Reviews']=review_content

File ~\anaconda3\Lib\site-packages\pandas\core\frame.py:3980, in DataF
rame.__setitem__(self, key, value)
   3977     self._setitem_array([key], value)
   3978 else:
   3979     # set column
-> 3980     self._set_item(key, value)

File ~\anaconda3\Lib\site-packages\pandas\core\frame.py:4174, in DataF
rame._set_item(self, key, value)
   4164 def _set_item(self, key, value) -> None:
   4165     """
   4166     Add series to DataFrame in specified column.
   4167
   (...)
   4172     ensure homogeneity.
   4173     """
-> 4174     value = self._sanitize_column(value)
   4176     if (
   4177         key in self.columns
   4178         and value.ndim == 1
   4179         and not is_extension_array_dtype(value)
   4180     ):
   4181         # broadcast across multiple columns if necessary
   4182         if not self.columns.is_unique or isinstance(self.colu
mns, MultiIndex):

File ~\anaconda3\Lib\site-packages\pandas\core\frame.py:4915, in DataF
rame._sanitize_column(self, value)
   4912     return _reindex_for_setitem(Series(value), self.index)
   4914 if is_list_like(value):
-> 4915     com.require_length_match(value, self.index)
   4916 return sanitize_array(value, self.index, copy=True, allow_2d=
True)

File ~\anaconda3\Lib\site-packages\pandas\core\common.py:571, in requi
re_length_match(data, index)
    567 """
    568 Check the length of data matches the length of the index.
    569 """
    570 if len(data) != len(index):
--> 571     raise ValueError(
    572         "Length of values "
    573         f"({len(data)}) "
    574         "does not match length of index "
    575         f"({len(index)})"
    576     )

ValueError: Length of values (10) does not match length of index (12)
```

In [61]: ▶| `df.to_csv("ProductReviews.csv", index=True)`

In [ ]: ▶|