Title Of the Product

Hdd Windows 10 Home 15s Gr0006au Thin Light Laptop | Price in India | Flipkart.

com

Check Product Price

Scrap Customer Names

Scrap Reviews

```
In [33]: review=soup.find_all("p",class_="_2-N8zT")
      review
Out[33]: [Very Good,
       Terrific,
       Worth every penny,
       Fair,
       Fair,
       Just wow!,
       Good,
       Wonderful,
       Very Good,
       Nice product]
In [34]: cust rev=[]
      for i in range(0,len(review)):
         cust rev.append(review[i].get text())
In [35]: cust rev
Out[35]: ['Very Good',
       'Terrific',
       'Worth every penny',
       'Fair',
       'Fair',
       'Just wow!',
       'Good',
       'Wonderful',
       'Very Good',
       'Nice product']
In [40]: #soup.find("p",class_="_2-N8zT").get_text()
```

Scrap Comments

```
In [41]: comment=soup.find_all("div",class_="t-ZTKy")
comment
```

Out[41]: [<div class="t-ZTKy"><div><div class="">Read carefully. My Experience was comp licated just because of boot time i.e. on/off time was too long until I didn't go for updates but once I have done all updates... I am telling you guys...Mask a..hai.. Maska..

| Aska..

| Aska...

| Aska...<b

<div class="t-ZTKy"><div><div><div class="">Nice laptop and Ryzen 3 is a good proce
ssor for multi tasking... Design and color both are good. It's better to go wit
h this HP laptop in this price segment...</div>READ
MORE</div></div><</di></or>

<div class="t-ZTKy"><div><div><div class="">This laptop needs to be upgraded to at
 least 8 gb memory for better performance as most of HP bloatware that comes wit
 h the windows build use almost 80% of ram all the time. Besides the built in ve
 ga gpu shares Ram as it does not have dedicated graphics memory. An SSD upgrade
 and booting the OS in there should do wonders to the disk I/O and overall perfo
 rmance. Out of the box, laptop is sluggish so 3 stars.</div><span class="_1H-bm
 y">READ MORE</div></div>,

<div class="t-ZTKy"><div><div><div class="">HP Product is Good/Ok, but personally i
will prefer Dell Laptop. Dell Laptop is best & friendly for smooth process
br/>& I thing i3 is better comparison to Rayzen 3.
/div><span class="_1H-bm
y">READ MORE</div></div>,

<div class="t-ZTKy"><div><div><div class="">Awesome and nice for students and all.
The favorite things is its comes with Windows and office home and student preci
ous.</div>READ MORE</div></div>,

<div class="t-ZTKy"><div><div><div><div class="">Do not expect much :
1)Very slow ta kes a lot of time just open a browser.
2)Design is good
3)Battery bac kup ok.
if you want to do basic editing and some gaming then go for atleast 8 GB ram and 4 core processor .</div>READ MORE</div><,</or>

<div class="t-ZTKy"><div><div><div class="">Compare to i3, ryzen 3 is far better in
performance with 4gb ram, full Battery charged still works more than 6 hrs... N
o heating problem. Display only not bad quality, rest of them are worth for th
is amount</div>READ MORE</div></div>,
 <div class="t-ZTKy"><div><div class="">Very nice product finishing is very goo
d.</div>READ MORE</div></div><,</pre>

<div class="t-ZTKy"><div><div class="">This laptop is very light weight and I
am happy!! @@</div>READ MORE</div>
</div>]

```
In [42]: cust_comment=[]

for i in range(0,len(comment)):
        cust_comment.append(comment[i].get_text())
```

In [43]: | cust_comment

Out[43]: ["Read carefully.. My Experience was complicated just because of boot time i.e.
 on/off time was too long until I didn't go for updates but once I have done all
 updates... I am telling you guys...Maska..hai.. Maska..Superb performance.. and
 look wise i liked it very much. I use to play GT racing without any lag..My dau
 ghter is also happy for her online studies.My suggestion is that don't think tw
 ice just go for it with Flipkart.Thanks flipkart for very safe and on time deli
 very.READ MORE",

"#Price up to markIts wonderful product for those ,who looking for student an d domestic work1)Its just my dream lappi,(laptop)2)just go for laptop,its reall y awesome3)I just bought it for my project and bussiness work it's awesome4)one of the best product from HP5)just price is little high ,it have to be reduced6) I loved it7) I recommend it for u, PREAD MORE",

"Nice laptop and Ryzen 3 is a good processor for multi tasking... Design and c olor both are good. It's better to go with this HP laptop in this price segmen t...READ MORE",

'This laptop needs to be upgraded to at least 8 gb memory for better performan ce as most of HP bloatware that comes with the windows build use almost 80% of ram all the time. Besides the built in vega gpu shares Ram as it does not have dedicated graphics memory. An SSD upgrade and booting the OS in there should do wonders to the disk I/O and overall performance. Out of the box, laptop is slug gish so 3 stars.READ MORE',

'HP Product is Good/Ok, but personally i will prefer Dell Laptop. Dell Laptop is best & friendly for smooth process& I thing i3 is better comparison to Rayze n 3.READ MORE',

'Awesome and nice for students and all. The favorite things is its comes with Windows and office home and student precious.READ MORE',

'Do not expect much :1)Very slow takes a lot of time just open a browser.2)Des ign is good 3)Battery backup ok.if you want to do basic editing and some gamin g then go for atleast 8 GB ram and 4 core processor .READ MORE',

'Compare to i3, ryzen 3 is far better in performance with 4gb ram, full Batter y charged still works more than 6 hrs... No heating problem. Display only not bad quality, rest of them are worth for this amountREAD MORE',

'Very nice product finishing is very good.READ MORE',

'This laptop is very light weight and I am happy!! 🙂 🥲 READ MORE']

Scrap Rating

```
In [44]: rating=soup.find_all("div",class_="_3LWZ1K _1BLPMq")
    rating
```

```
In [45]: cust_rating=[]
    for i in range(0,len(rating)):
        cust_rating.append(rating[i].get_text())

In [46]: cust_rating

Out[46]: ['4', '5', '5', '3', '3', '5', '3', '4', '4', '4']

In [47]: import pandas as pd

In [48]: df=pd.DataFrame()
    df["Customer Names"]=cust_name
    df["Customer Review"]=cust_rev
    df["Customer Comment"]=cust_comment
    df["Ratings"]=cust_rating

In [49]: df
```

Out[49]:

	Customer Names	Customer Review	Customer Comment	Ratings
0	Vaibhav Bharati	Very Good	Read carefully My Experience was complicated	4
1	MD MATHIN ALI	Terrific	#Price up to markIts wonderful product for tho	5
2	Sayani Banerjee	Worth every penny	Nice laptop and Ryzen 3 is a good processor fo	5
3	Satyajit Swain	Fair	This laptop needs to be upgraded to at least 8	3
4	Vijay Singh Shekhawat	Fair	HP Product is Good/Ok, but personally i will p	3
5	Anoop Mathew	Just wow!	Awesome and nice for students and all. The fav	5
6	Vivek Raturi	Good	Do not expect much :1)Very slow takes a lot of	3
7	Anand Amirtharaj	Wonderful	Compare to i3, ryzen 3 is far better in perfor	4
8	Flipkart Customer	Very Good	Very nice product finishing is very good.READ	4
9	Shivani Pankaj	Nice product	This laptop is very light weight and I am happ	4

In [50]: df.T

Out[50]:

	0	1	2	3	4	5	6	7	
Customer Names	Vaibhav Bharati	MD MATHIN ALI	Sayani Banerjee	Satyajit Swain	Vijay Singh Shekhawat	Anoop Mathew	Vivek Raturi	Anand Amirtharaj	
Customer Review	Very Good	Terrific	Worth every penny	Fair	Fair	Just wow!	Good	Wonderful	,
Customer Comment	Read carefully My Experience was complicated	#Price up to markIts wonderful product for tho	Nice laptop and Ryzen 3 is a good processor fo	This laptop needs to be upgraded to at least 8	HP Product is Good/Ok, but personally i will p	Awesome and nice for students and all. The fav	Do not expect much :1)Very slow takes a lot of	Compare to i3, ryzen 3 is far better in perfor	1 gc
Ratings	4	5	5	3	3	5	3	4	

```
In [51]: df.shape

Out[51]: (10, 4)

In [52]: df.size

Out[52]: 40

In [62]: df.columns

Out[62]: Index(['Customer Names', 'Customer Review', 'Customer Comment', 'Ratings'], dty pe='object')

In [63]: df.ndim

Out[63]: 2

In [64]: df.to_csv("Hp Product FlipKart Review",index=False)
```

```
In [65]: df=pd.read_csv("Hp Product FlipKart Review")
df
```

Out[65]:

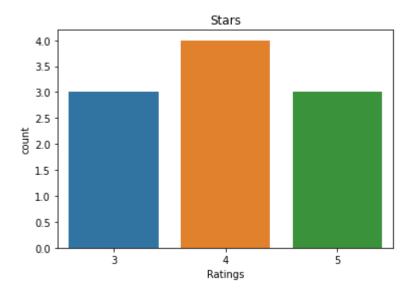
	Customer Names	Customer Review	Customer Comment	Ratings
0	Vaibhav Bharati	Very Good	Read carefully My Experience was complicated	4
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5	Anoop Mathew	Just wow!	Awesome and nice for students and all. The fav	5
6	Vivek Raturi	Good	Do not expect much :1)Very slow takes a lot of	3
7	Anand Amirtharaj	Wonderful	Compare to i3, ryzen 3 is far better in perfor	4
8	Flipkart Customer	Very Good	Very nice product finishing is very good.READ	4
9	Shivani Pankaj	Nice product	This laptop is very light weight and I am happ	4

```
In [104]: df["Customer Review"]
Out[104]: 0
                       Very Good
                         Terrific
          1
          2
               Worth every penny
                             Fair
          4
                             Fair
                        Just wow!
                             Good
                       Wonderful
          7
          8
                       Very Good
                    Nice product
          Name: Customer Review, dtype: object
In [105]: df["Ratings"].min()
Out[105]: 3
In [106]: df["Ratings"].unique()
Out[106]: array([4, 5, 3], dtype=int64)
In [107]: df["Ratings"].value_counts()
Out[107]: 4
               4
          5
               3
          Name: Ratings, dtype: int64
```

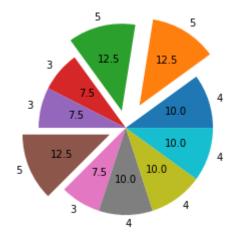
```
In [66]: import matplotlib.pyplot as plt
import seaborn as sns
```

```
In [72]: sns.countplot(x=df["Ratings"])
    plt.title("Stars")
```

Out[72]: Text(0.5, 1.0, 'Stars')



In [87]: data=['4', '5', '5', '3', '3', '5', '3', '4', '4', '4']
plt.pie(x=data,labels=data,explode=(0,0.3,0.2,0,0,0.2,0,0,0,0),autopct="%1.1f")
plt.show()

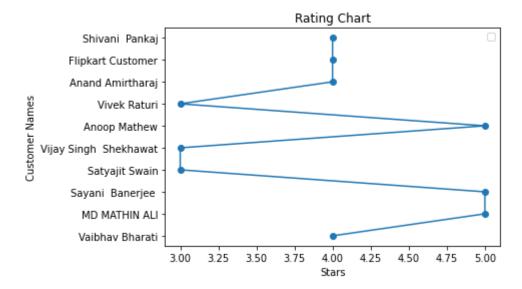


In []:

```
In [103]: #label=["Names", "Rating"]
    plt.plot(df["Ratings"],df["Customer Names"],marker="o")

    plt.xlabel("Stars")
    plt.ylabel("Customer Names")
    plt.legend()
    plt.title("Rating Chart")
    plt.show()
```

No artists with labels found to put in legend. Note that artists whose label s tart with an underscore are ignored when legend() is called with no argument.



```
In [ ]:
```