Institute of Computer Technology
B. Tech Computer Science and Engineering
Sub: Data Mining and Warehousing (2CSE60E27)

PRACTICAL 1: WEB SCRAPPING USING BEAUTIFULSOUP

Suppose you wanted to buy a product online (example. a mobile phone or Television). So, for that you will check the e-commerce website from where you wanted to buy. As an alert customer, you will be checking all the items available for different brands and specifications, varying in cost. All those details you need to go through one by one for all the products to select the best one. It will take loss of your time and efforts. So now, to ease your work, extract all the information from website and store that details in the tabular format or in an excel file. (Example: Storing all the details of phone like brand name, specification and price in a table) So that it will be easy to analyze.
Note: You can choose any product of your choice and e-commerce website as well.

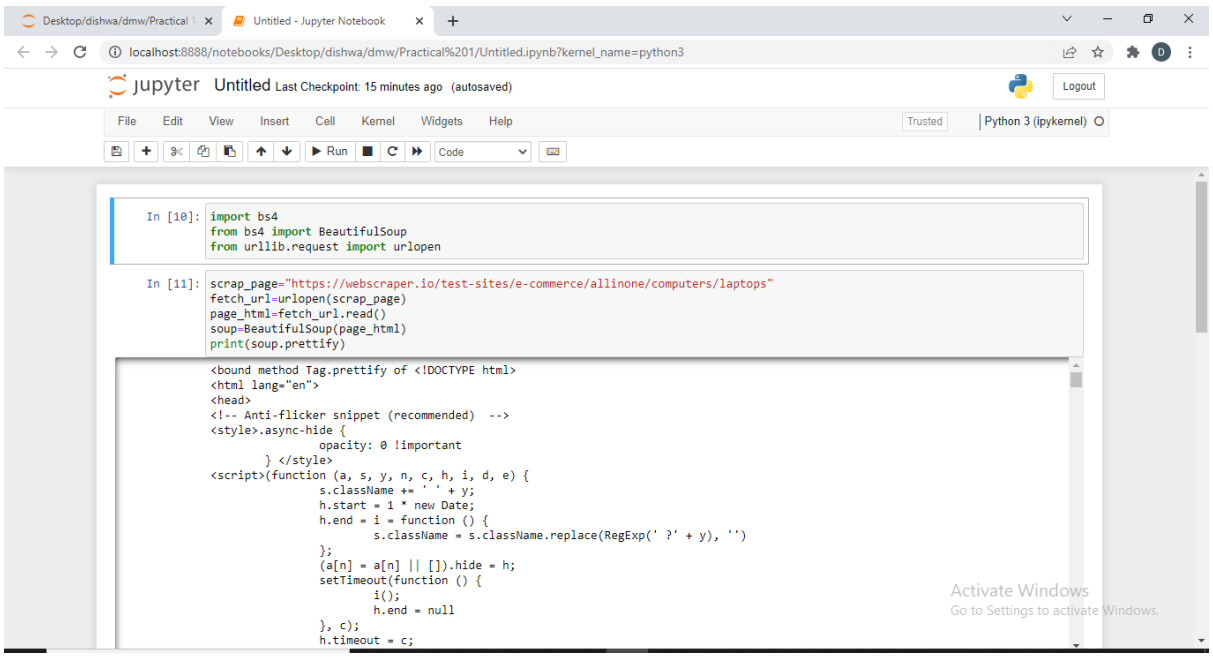
http://localhost:8888/notebooks/Desktop/dishwa/dmw/Practical%201/dishwa%20dmw%201.ipynb

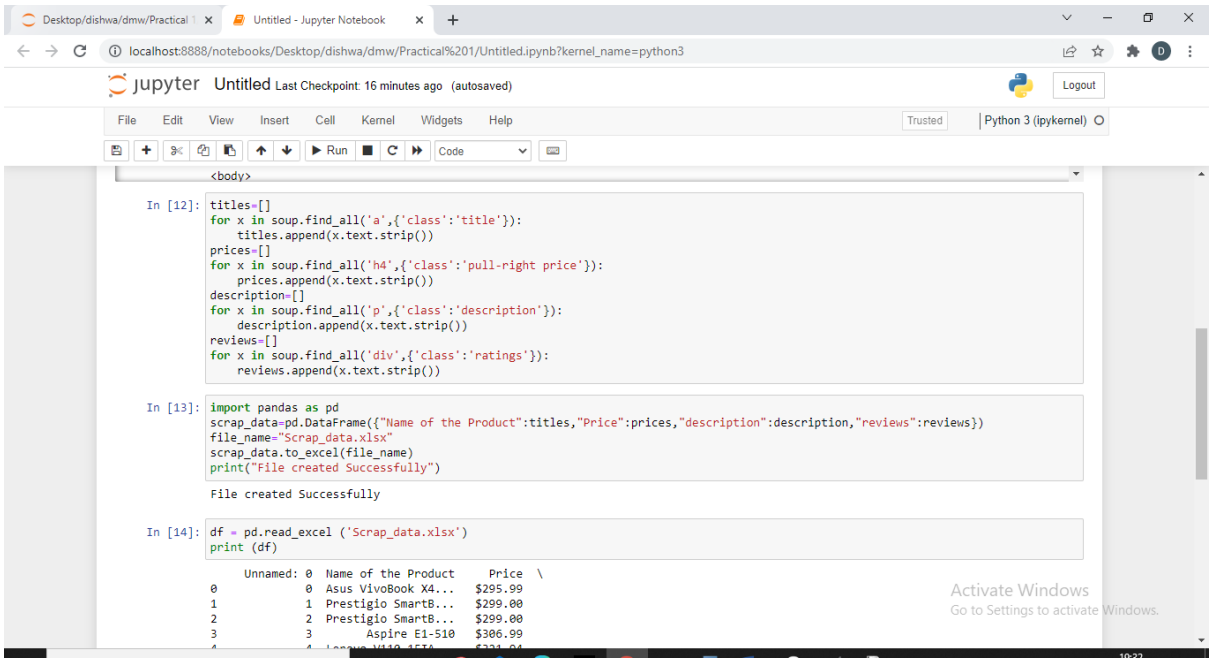
Code:

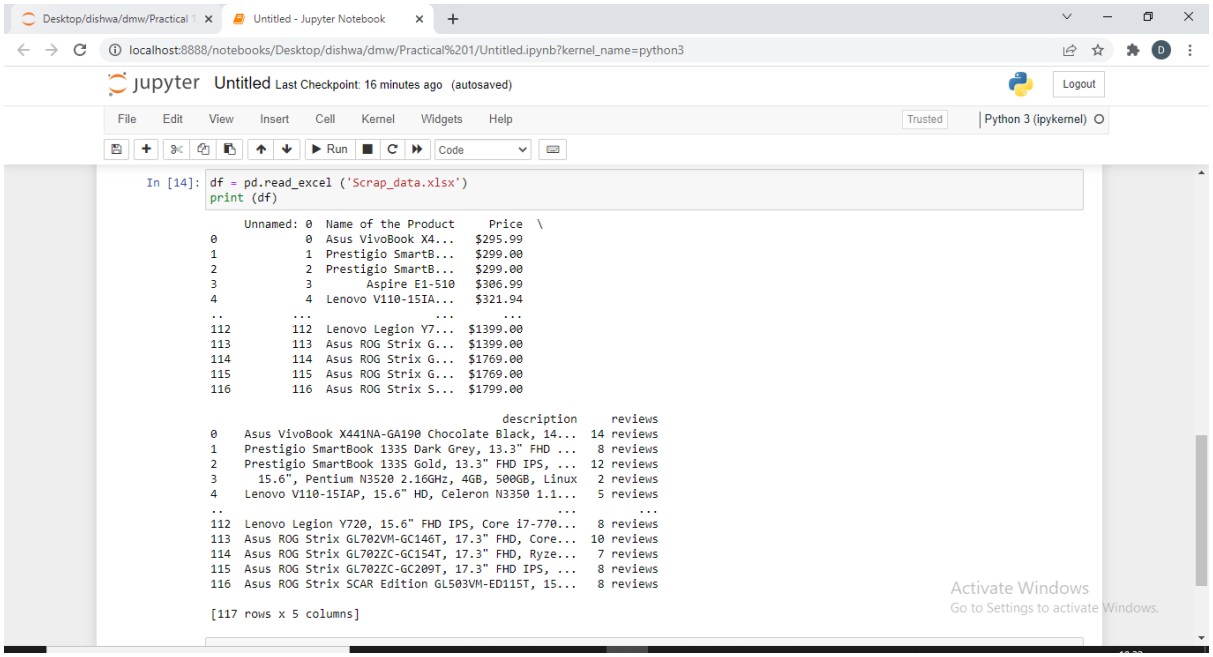
```
import bs4
from bs4 import BeautifulSoup
from urllib.request import urlopen

scrap_page="https://webscraper.io/test-sites/e-ommerce/allinone/computers/laptops"
fetch_url=urlopen(scrap_page)
page_html=fetch_url.read()
soup=BeautifulSoup(page_html)
print(soup.prettify)

titles=[]
for x in soup.find_all('a',{'class':'title'}):
    titles.append(x.text.strip())
prices=[]
for x in soup.find_all('h4',{'class':'pull-right price'}):
    prices.append(x.text.strip())
description=[]
for x in soup.find_all('p',{'class':'description'}):
    description.append(x.text.strip())
reviews=[]
for x in soup.find_all('div',{'class':'ratings'}):
    reviews.append(x.text.strip())

import pandas as pd
```

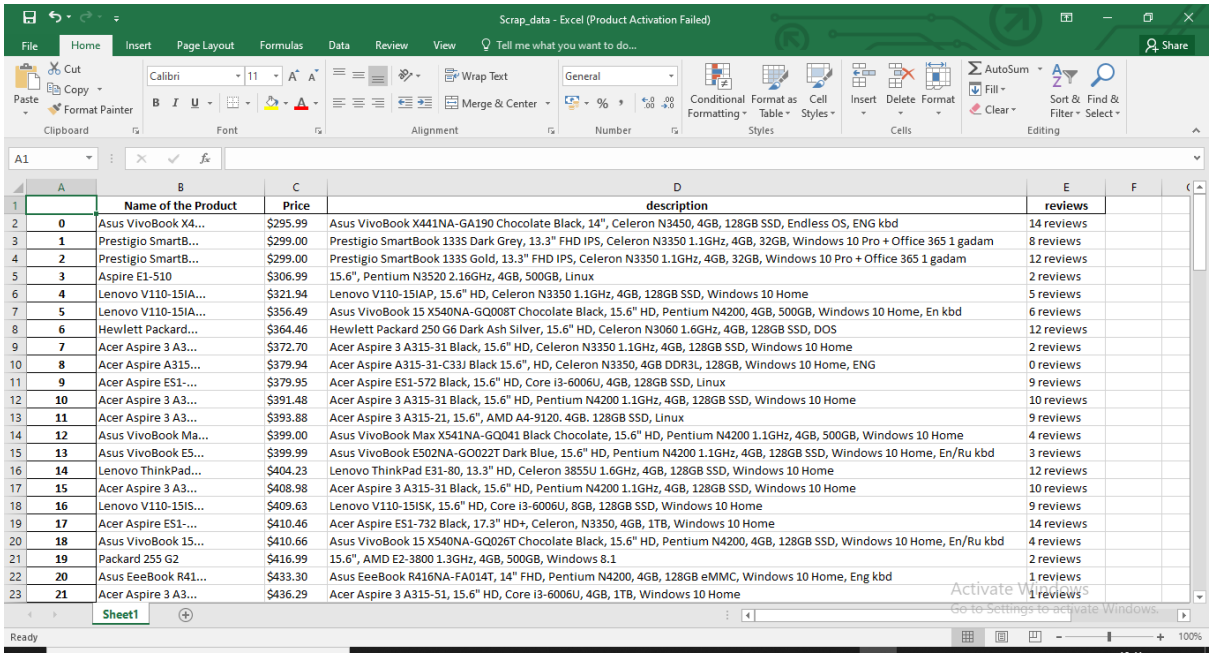
```
scrap_data=pd.DataFrame({"Name of the
Product":titles,"Price":prices,"description":description,"reviews":reviews})
file_name="Scrap_data.xlsx"
scrap_data.to_excel(file_name)
print("File created Successfully")

df = pd.read_excel ('Scrap_data.xlsx')
print (df)
```

Output:









	A	B	C	D	E
1		Name of the Product	Price	description	reviews
2	0	Asus VivoBook X4...	$295.99	Asus VivoBook X441NA-GA190 Chocolate Black, 14", Celeron N3450, 4GB, 128GB SSD, Endless OS, ENG kbd	14 reviews
3	1	Prestigio SmartB...	$299.00	Prestigio SmartBook 133S Dark Grey, 13.3" FHD IPS, Celeron N3350 1.1GHz, 4GB, 32GB, Windows 10 Pro + Office 365 1 gadam	8 reviews
4	2	Prestigio SmartB...	$299.00	Prestigio SmartBook 133S Gold, 13.3" FHD IPS, Celeron N3350 1.1GHz, 4GB, 32GB, Windows 10 Pro + Office 365 1 gadam	12 reviews
5	3	Aspire E1-510	$306.99	15.6", Pentium N3520 2.16GHz, 4GB, 500GB, Linux	2 reviews
6	4	Lenovo V110-15IA...	$321.94	Lenovo V110-15IAP, 15.6" HD, Celeron N3350 1.1GHz, 4GB, 128GB SSD, Windows 10 Home	5 reviews
7	5	Lenovo V110-15IA...	$356.49	Asus VivoBook 15 X540NA-GQ008T Chocolate Black, 15.6" HD, Pentium N4200, 4GB, 500GB, Windows 10 Home, En kbd	6 reviews
8	6	Hewlett Packard...	$364.46	Hewlett Packard 250 G6 Dark Ash Silver, 15.6" HD, Celeron N3060 1.6GHz, 4GB, 128GB SSD, DOS	12 reviews
9	7	Acer Aspire 3 A3...	$372.70	Acer Aspire 3 A315-31 Black, 15.6" HD, Celeron N3350 1.1GHz, 4GB, 128GB SSD, Windows 10 Home	2 reviews
10	8	Acer Aspire A315...	$379.94	Acer Aspire A315-31-C33J Black 15.6", HD, Celeron N3350, 4GB DDR3L, 128GB, Windows 10 Home, ENG	0 reviews
11	9	Acer Aspire ES1-...	$379.95	Acer Aspire ES1-572 Black, 15.6" HD, Core i3-6006U, 4GB, 128GB SSD, Linux	9 reviews
12	10	Acer Aspire 3 A3...	$391.48	Acer Aspire 3 A315-31 Black, 15.6" HD, Pentium N4200 1.1GHz, 4GB, 128GB SSD, Windows 10 Home	10 reviews
13	11	Acer Aspire 3 A3...	$393.88	Acer Aspire 3 A315-21, 15.6", AMD A4-9120, 4GB, 128GB SSD, Linux	9 reviews
14	12	Asus VivoBook Ma...	$399.00	Asus VivoBook Max X541NA-GQ041 Black Chocolate, 15.6" HD, Pentium N4200 1.1GHz, 4GB, 500GB, Windows 10 Home	4 reviews
15	13	Asus VivoBook E5...	$399.99	Asus VivoBook E502NA-GO022T Dark Blue, 15.6" HD, Pentium N4200 1.1GHz, 4GB, 128GB SSD, Windows 10 Home, En/Ru kbd	3 reviews
16	14	Lenovo ThinkPad...	$404.23	Lenovo ThinkPad E31-80, 13.3" HD, Celeron 3855U 1.6GHz, 4GB, 128GB SSD, Windows 10 Home	12 reviews
17	15	Acer Aspire 3 A3...	$408.98	Acer Aspire 3 A315-31 Black, 15.6" HD, Pentium N4200 1.1GHz, 4GB, 128GB SSD, Windows 10 Home	10 reviews
18	16	Lenovo V110-15IS...	$409.63	Lenovo V110-15ISK, 15.6" HD, Core i3-6006U, 8GB, 128GB SSD, Windows 10 Home	9 reviews
19	17	Acer Aspire ES1-...	$410.46	Acer Aspire ES1-732 Black, 17.3" HD+, Celeron, N3350, 4GB, 1TB, Windows 10 Home	14 reviews
20	18	Asus VivoBook 15...	$410.66	Asus VivoBook 15 X540NA-GQ026T Chocolate Black, 15.6" HD, Pentium N4200, 4GB, 128GB SSD, Windows 10 Home, En/Ru kbd	4 reviews
21	19	Packard 255 G2	$416.99	15.6", AMD E2-3800 1.3GHz, 4GB, 500GB, Windows 8.1	2 reviews
22	20	Asus EeeBook R41...	$433.30	Asus EeeBook R416NA-FA014T, 14" FHD, Pentium N4200, 4GB, 128GB eMMC, Windows 10 Home, Eng kbd	1 reviews
23	21	Acer Aspire 3 A3...	$436.29	Acer Aspire 3 A315-51, 15.6" HD, Core i3-6006U, 4GB, 1TB, Windows 10 Home	1 reviews