SCT_SD_4

TASK 4:

Create a program that extracts information such as name, price and ratings from an online e-commerce website and stores the data in a structured format such as a CSV file.

Source Code: (PYTHON)

```
from bs4 import BeautifulSoup
import requests
import pandas as pd
import csv
url = "https://webscraper.io/test-sites/e-commerce/allinone/computers/tablets"
# Headers for requests
headers = {
    "User-Agent": "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/537.36
(KHTML, like Gecko) Chrome/133.0.0.0 Safari/537.36",
   "Accept-Language": "en-US, en; q=0.5"
# HTTP Request
webpage = requests.get(url, headers=headers)
if webpage.status_code == 200:
    soup = BeautifulSoup(webpage.text, 'html.parser')
    products = soup.find_all("div", class_="thumbnail")
    data = []
    for product in products:
        # Extract name
        name = product.find("a", class_="title").text.strip()
```

```
# Extract price
        price = product.find("h4", class_="price").text.strip()
        # Extract reviews
        review = product.find("p", class_="review-count").text.strip()
       # Extract rating (count number of stars)
        stars = len(product.find_all("span", class_="glyphicon glyphicon-star"))
       data.append([name, price, review, stars])
   # Convert to DataFrame
    df = pd.DataFrame(data, columns=["Product Name", "Price", "Reviews", "Rating"])
   # Print the DataFrame
    print(df)
else:
    print(f"Failed to retrieve webpage. Status code: {webpage.status_code}")
# Convert to DataFrame
df = pd.DataFrame(data, columns=["Product Name", "Price", "Reviews", "Rating"])
# Save DataFrame to CSV file
df.to_csv("tablets_data.csv", index=False, encoding="utf-8")
print("Data successfully saved to tablets_data.csv")
```

OUTPUT:

```
o ayushghosh@Ayushs-MacBook-Air ~ % /usr/local/bin/python3 /Users/ayushghosh/Desktop/SCT_SD/SCT_SD_4/SCT_SD_4.py
                                                                                                     /usr/locat/
Reviews Rating
0
                        Product Name
Lenovo IdeaTab
IdeaTab A3500L
Acer Iconia
                                                                        Price
                                                                    971ce
$69.99
$88.99
$96.99
$97.99
$101.99
                                                                                                7 reviews
7 reviews
7 reviews
7 reviews
1 reviews
   0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
                                                                                                                                              0000000
               Galaxy Tab 3
Iconia B1-730H...
Memo Pad HD 7
Asus MeMO Pad
                                                                                              10 reviews
14 reviews
                                                                     $102.99
$103.99
                           Amazon Kindle
                                                                                               3 reviews
                                                                     $107.99
$121.99
$130.99
                           Galaxy Tab 3
IdeaTab A8-50
MeMO Pad 7
                                                                                              14 reviews
                                                                                              13 reviews
11 reviews
                                                                                                                                              0000000000
              MeMO Pad 7
IdeaTab A3500-..
IdeaTab S5000
Galaxy Tab 4
Galaxy Tab
MeMo PAD FHD 1...
Galaxy Note
Galaxy Note
iPad Mini Reti...
Galaxy Note 10...
                                                                     $148.99
                                                                                                9 reviews
                                                                     $172.99
$233.99
$251.99
                                                                                                  8 reviews
                                                                                                 1 reviews
                                                                                             14 reviews
7 reviews
12 reviews
   Galaxy Tab $251.99 14 reviews
15 MeMo PAD FHD 1... $320.99 7 reviews
16 Galaxy Note $399.99 12 reviews
17 Galaxy Note $489.99 9 reviews
18 iPad Mini Reti... $537.99 8 reviews
19 Galaxy Note 10... $587.99 6 reviews
20 Apple iPad Air $603.99 7 reviews
Data successfully saved to tablets_data.csv
ayushghosh@Ayushs-MacBook-Air ~ %
                                                                                                                                              0
                                                                                                                                              o
```