Name: Kushal Kishor Shankhapal

Group C, Assignment 7: Web Crawler

Problem Statement:

Build the web crawler to pull product information and links from an e-commerce website. (Python)

Web_Crawler.ipynb

```
import requests
from bs4 import BeautifulSoup
import csv

url = "https://webscraper.io/test-sites/e-commerce/allinone/computers/tablets"
r = requests.get(url)
soup = BeautifulSoup(r.text, "lxml")

products = soup.find_all("div", class_="thumbnail")
product_data = []

for product in products:
    name_tag = product.find("a", class_="title")
    product_name = name_tag.text.strip() if name_tag else "N/A"

    price_tag = product.find("h4", class_="price")
    product_price = price_tag.text.strip() if price_tag else "N/A"

    ratings_div = product.find("div", class_="ratings")
    if ratings_div:
        star_tags = ratings_div.find_all("span", class_="glyphicon glyphicon-star")
        product_rating = str(len(star_tags))  # Number of stars
    else:
        product_rating = "N/A"

    product_data.append([product_name, product_price, product_rating])

csv_filename = "product_data.csv"
with open(csv_filename, 'w', newline='', encoding='utf-8') as csvfile:
    csv_writer = csv.writer(csvfile)
    csv_writer.writerow(["Product Name", "Product Price", "Product Rating"])
    csv_writer.writerows(product_data)

print(f"Data successfully scraped and saved to {csv_filename}")
```

Output:

Product Name	Product Price	Product Rating
Lenovo IdeaTab	$69.99	0
IdeaTab A3500L	$88.99	0
Acer Iconia	$96.99	0
Galaxy Tab 3	$97.99	0
Iconia B1-730H...	$99.99	0
Memo Pad HD 7	$101.99	0
Asus MeMO Pad	$102.99	0
Amazon Kindle	$103.99	0
Galaxy Tab 3	$107.99	0
IdeaTab A8-50	$121.99	0
MeMO Pad 7	$130.99	0
IdeaTab A3500-...	$148.99	0

Product Name	Product Price	Product Rating
IdeaTab S5000	$172.99	0
Galaxy Tab 4	$233.99	0
Galaxy Tab	$251.99	0
MeMo PAD FHD 1...	$320.99	0
Galaxy Note	$399.99	0
Galaxy Note	$489.99	0
iPad Mini Reti...	$537.99	0
Galaxy Note 10...	$587.99	0
Apple iPad Air	$603.99	0