



TEAM - 6

TEAM LEAD

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The background is a blue gradient with faint concentric circles. White circuit-like lines with circular nodes are positioned in the corners: top-left, top-right, bottom-left, and bottom-right.

TITLE OF PROJECT

AMAZON SCRAPER

PROJECT INTRODUCTION

CONTENT:

Project Name : Amazon Product Scraper

Objective :

To extract product details (Product Name, Price, Availability, Rating, and Reviews) from Amazon product pages.

Purpose :

Automate data collection for market research, price comparisons, and competitor analysis.

Outcome :

Save the extracted data in an Excel file for easy access and analysis.



CODE IMPLEMENTATION

Include the **main parts** of the code (use snippets)

1.HTTP Request using request

2.HTML Parsing using beautifulsoup

3.Data Extraction: Product Name, Price, Availability, Rating, Reviews

4.Export to Excel using pandas

TECH USED IN PROJECT

CONTENT:

Programming Language : Python

Libraries and Tools:

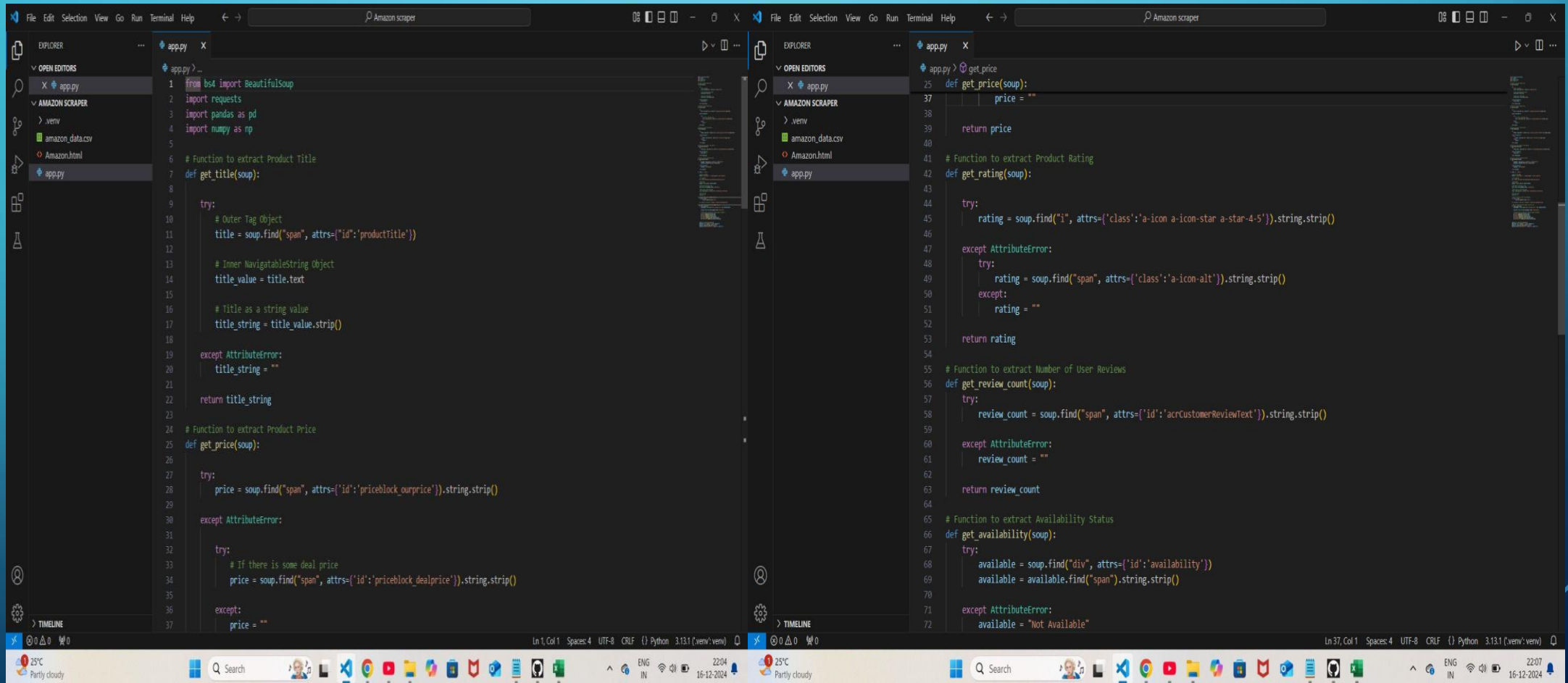
Requests : To fetch web page content.

BeautifulSoup : To parse and extract data from HTML.

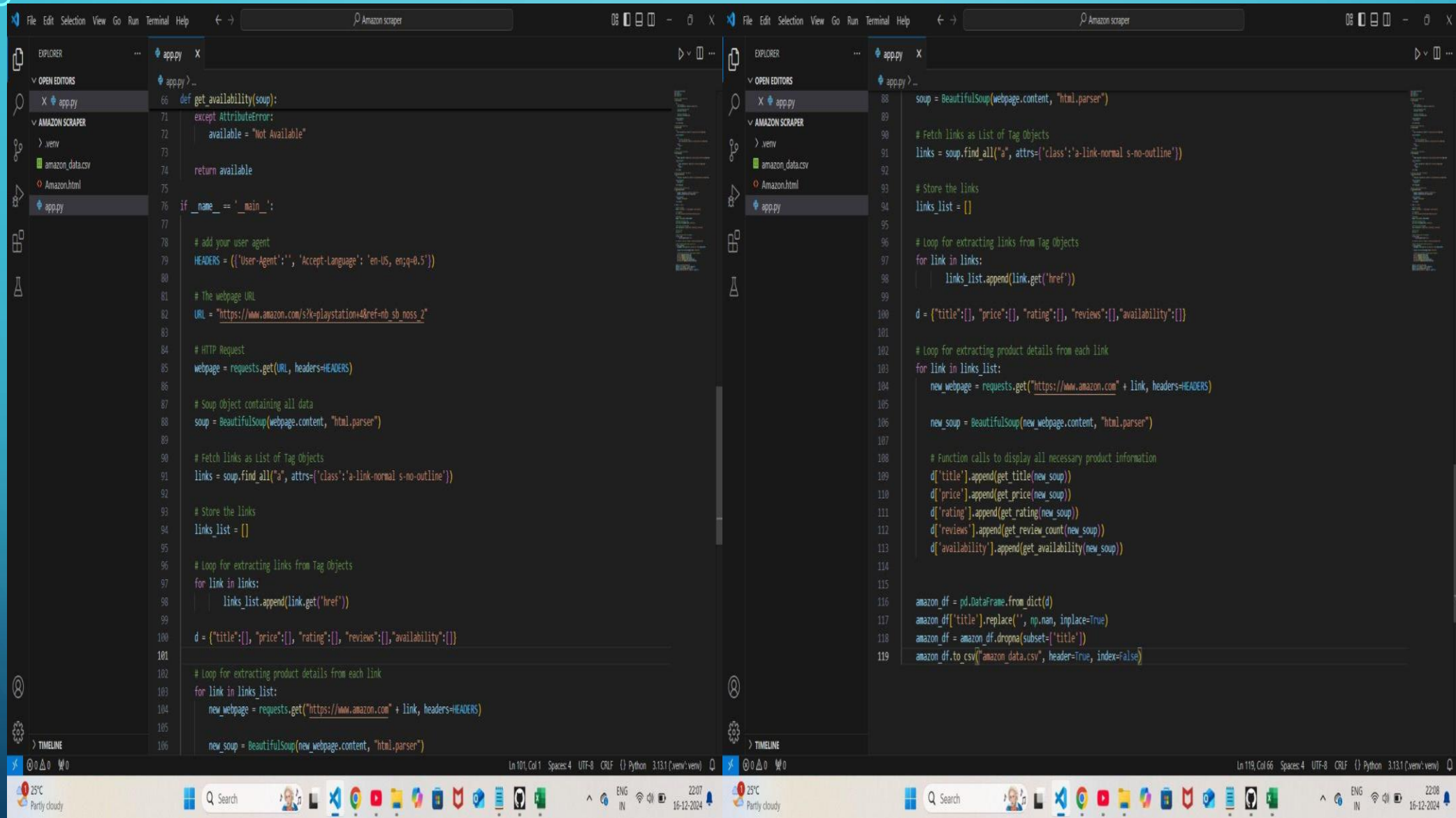
Pandas : To store and save data into an Excel file.

Excel : For organizing and visualizing the output.

CODECRAFT



```
1 from bs4 import BeautifulSoup
2 import requests
3 import pandas as pd
4 import numpy as np
5
6 # Function to extract Product Title
7 def get_title(soup):
8
9     try:
10         # Outer Tag Object
11         title = soup.find("span", attrs={"id": 'productTitle'})
12
13         # Inner NavigableString Object
14         title_value = title.text
15
16         # Title as a string value
17         title_string = title_value.strip()
18
19     except AttributeError:
20         title_string = ""
21
22     return title_string
23
24 # Function to extract Product Price
25 def get_price(soup):
26
27     try:
28         price = soup.find("span", attrs={'id': 'priceblock_ourprice'}).string.strip()
29
30     except AttributeError:
31
32         try:
33             # If there is some deal price
34             price = soup.find("span", attrs={'id': 'priceblock_dealprice'}).string.strip()
35
36         except:
37             price = ""
38
39 # Function to extract Product Rating
40 def get_rating(soup):
41
42     try:
43         rating = soup.find("i", attrs={'class': 'a-icon a-icon-star a-star-4-5'}).string.strip()
44
45     except AttributeError:
46         try:
47             rating = soup.find("span", attrs={'class': 'a-icon-alt'}).string.strip()
48
49         except:
50             rating = ""
51
52     return rating
53
54 # Function to extract Number of User Reviews
55 def get_review_count(soup):
56
57     try:
58         review_count = soup.find("span", attrs={'id': 'acrCustomerReviewText'}).string.strip()
59
60     except AttributeError:
61         review_count = ""
62
63     return review_count
64
65 # Function to extract Availability Status
66 def get_availability(soup):
67
68     try:
69         available = soup.find("div", attrs={'id': 'availability'})
70         available = available.find("span").string.strip()
71
72     except AttributeError:
73         available = "Not Available"
```

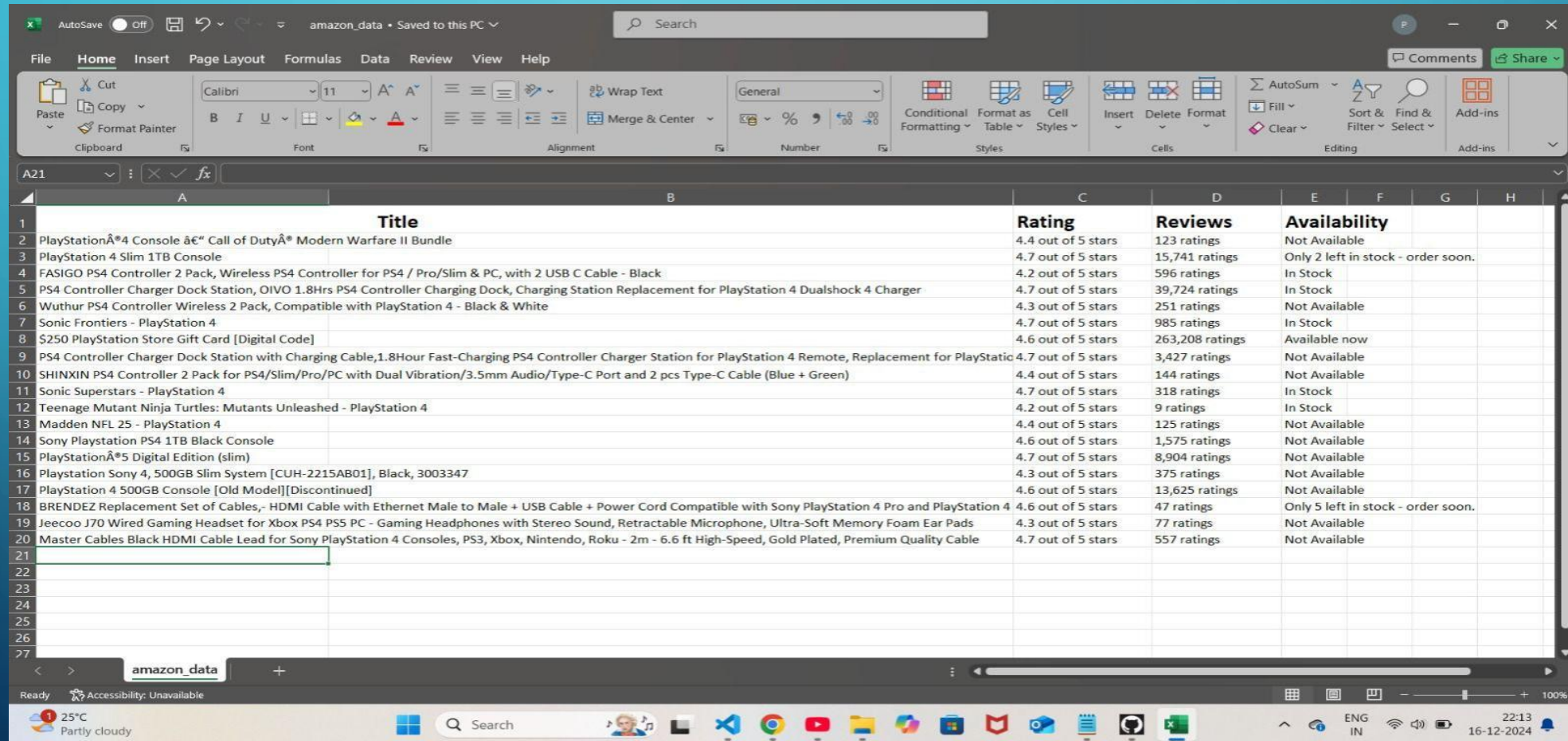



OUTPUT

```
File Edit Selection View Go Run Terminal Help Amazon scraper
EXPLORER
OPEN EDITORS
  app.py
  amazon_data.csv
AMAZON SCRAPER
  .env
  amazon_data.csv
  Amazon.html
  app.py
TIMELINE
1 title,,rating,,reviews,,availability
2 PlayStation®4 Console Call of Duty® Modern Warfare II Bundle,,4.4 out of 5 stars,123 ratings,Not Available
3 PlayStation 4 Slim 1TB Console,,4.7 out of 5 stars,"15,741 ratings",Only 2 left in stock - order soon.
4 "FASIGO PS4 Controller 2 Pack, Wireless PS4 Controller for PS4 / Pro/Slim & PC, with 2 USB C Cable - Black",,4.2 out of 5 stars,596 ratings,Not Available
5 "PS4 Controller Charger Dock Station, OIVO 1.8Hrs PS4 Controller Charging Dock, Charging Station Replacement for PlayStation 4 DualShock
6 "Wuthur PS4 Controller Wireless 2 Pack, Compatible with PlayStation 4 - Black & White",,4.3 out of 5 stars,251 ratings,Not Available
7 Sonic Frontiers - PlayStation 4,,4.7 out of 5 stars,985 ratings,In Stock
8 $250 PlayStation Store Gift Card [Digital Code],,4.6 out of 5 stars,"263,208 ratings",Available now
9 "PS4 Controller Charger Dock Station with Charging Cable,1.8Hour Fast-Charging PS4 Controller Charger Station for PlayStation 4 Remote, R
10 SHINXIN PS4 Controller 2 Pack for PS4/Slim/Pro/PC with Dual Vibration/3.5mm Audio/Type-C Port and 2 pcs Type-C Cable (Blue + Green),,4.4
11 Sonic Superstars - PlayStation 4,,4.7 out of 5 stars,318 ratings,In Stock
12 Teenage Mutant Ninja Turtles: Mutants Unleashed - PlayStation 4,,4.2 out of 5 stars,9 ratings,In Stock
13 Madden NFL 25 - PlayStation 4,,4.4 out of 5 stars,125 ratings,Not Available
14 Sony Playstation PS4 1TB Black Console,,4.6 out of 5 stars,"1,575 ratings",Not Available
15 PlayStation®5 Digital Edition (slim),,4.7 out of 5 stars,"8,904 ratings",Not Available
16 "Playstation Sony 4, 500GB Slim System [CUH-2215A801], Black, 3003347",,4.3 out of 5 stars,375 ratings,Not Available
17 PlayStation 4 500GB Console [Old Model][Discontinued],,4.6 out of 5 stars,"13,625 ratings",Not Available
18 "BRENDZ Replacement Set of Cables,- HDMI Cable with Ethernet Male to Male + USB Cable + Power Cord Compatible with Sony PlayStation 4 Pr
19 "Jeeecoo J70 Wired Gaming Headset for Xbox PS4 PS5 PC - Gaming Headphones with Stereo Sound, Retractable Microphone, Ultra-Soft Memory Foa
20 "Master Cables Black HDMI Cable Lead for Sony PlayStation 4 Consoles, PS3, Xbox, Nintendo, Roku - 2m - 6.6 ft High-Speed, Gold Plated, Pr
21
```


RESULT

IMPLEMENTED IN EXCEL SHEET



The screenshot displays an Excel spreadsheet titled "amazon_data" with a table of PlayStation 4 products. The table has four columns: Title, Rating, Reviews, and Availability. The data is organized into rows, with the first row serving as a header. The products listed include various PS4 consoles, controllers, and accessories, each with its corresponding rating and review count. The availability status is noted for each item, such as "Not Available" or "In Stock".

	Title	Rating	Reviews	Availability
1	PlayStation®4 Console & Call of Duty® Modern Warfare II Bundle	4.4 out of 5 stars	123 ratings	Not Available
2	PlayStation 4 Slim 1TB Console	4.7 out of 5 stars	15,741 ratings	Only 2 left in stock - order soon.
4	FASIGO PS4 Controller 2 Pack, Wireless PS4 Controller for PS4 / Pro/Slim & PC, with 2 USB C Cable - Black	4.2 out of 5 stars	596 ratings	In Stock
5	PS4 Controller Charger Dock Station, OIVO 1.8Hrs PS4 Controller Charging Dock, Charging Station Replacement for PlayStation 4 Dualshock 4 Charger	4.7 out of 5 stars	39,724 ratings	In Stock
6	Wuthur PS4 Controller Wireless 2 Pack, Compatible with PlayStation 4 - Black & White	4.3 out of 5 stars	251 ratings	Not Available
7	Sonic Frontiers - PlayStation 4	4.7 out of 5 stars	985 ratings	In Stock
8	\$250 PlayStation Store Gift Card [Digital Code]	4.6 out of 5 stars	263,208 ratings	Available now
9	PS4 Controller Charger Dock Station with Charging Cable, 1.8Hour Fast-Charging PS4 Controller Charger Station for PlayStation 4 Remote, Replacement for PlayStac	4.7 out of 5 stars	3,427 ratings	Not Available
10	SHINXIN PS4 Controller 2 Pack for PS4/Slim/Pro/PC with Dual Vibration/3.5mm Audio/Type-C Port and 2 pcs Type-C Cable (Blue + Green)	4.4 out of 5 stars	144 ratings	Not Available
11	Sonic Superstars - PlayStation 4	4.7 out of 5 stars	318 ratings	In Stock
12	Teenage Mutant Ninja Turtles: Mutants Unleashed - PlayStation 4	4.2 out of 5 stars	9 ratings	In Stock
13	Madden NFL 25 - PlayStation 4	4.4 out of 5 stars	125 ratings	Not Available
14	Sony Playstation PS4 1TB Black Console	4.6 out of 5 stars	1,575 ratings	Not Available
15	PlayStation®5 Digital Edition (slim)	4.7 out of 5 stars	8,904 ratings	Not Available
16	Playstation Sony 4, 500GB Slim System [CUH-2215AB01], Black, 3003347	4.3 out of 5 stars	375 ratings	Not Available
17	PlayStation 4 500GB Console [Old Model][Discontinued]	4.6 out of 5 stars	13,625 ratings	Not Available
18	BRENDEZ Replacement Set of Cables,- HDMI Cable with Ethernet Male to Male + USB Cable + Power Cord Compatible with Sony PlayStation 4 Pro and PlayStation 4	4.6 out of 5 stars	47 ratings	Only 5 left in stock - order soon.
19	Jeecoo J70 Wired Gaming Headset for Xbox PS4 PS5 PC - Gaming Headphones with Stereo Sound, Retractable Microphone, Ultra-Soft Memory Foam Ear Pads	4.3 out of 5 stars	77 ratings	Not Available
20	Master Cables Black HDMI Cable Lead for Sony PlayStation 4 Consoles, PS3, Xbox, Nintendo, Roku - 2m - 6.6 ft High-Speed, Gold Plated, Premium Quality Cable	4.7 out of 5 stars	557 ratings	Not Available
21				
22				
23				
24				
25				
26				
27				

REFERENCES

Content

Libraries and Tools:

- [Requests Documentation](#)
- [BeautifulSoup Documentation](#)
- [Pandas Documentation](#)

Amazon Product Page:

[Amazon Product Link](#)

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THANK YOU