2.EDA-Data Import and Export

AIM:

- Importing data from CSV, Excel, SQL databases, and web scraping
- Handling different data formats
- Export a DataFrame to an Excel file.

PROGRAM:

```
import pandas as pd
# For CSV
df csv = pd.read csv('/content/Iris.csv')
print(df csv.head())
# For Excel
df excel = pd.read excel('/content/exported data.xlsx')
print(df excel.head())
url = '/content/Iris.csv' # Replace with actual URL
df = pd.read csv(url)
print(df.head())
import pandas as pd
url =
'https://en.wikipedia.org/wiki/List of countries by GDP (nominal)'
tables = pd.read html(url) # returns a list of DataFrames
df = tables[0] # First table
print(df.head())
import requests
from bs4 import BeautifulSoup
url = 'https://example.com'
response = requests.get(url)
soup = BeautifulSoup(response.text, 'html.parser')
# Example: extract all paragraph text
for para in soup.find all('p'):
   print(para.text)
```

```
import pandas as pd
import json
from io import StringIO
# Create a dummy JSON string for demonstration
json_data = """
 {"name": "Alice", "age": 30, "city": "New York"},
 {"name": "Bob", "age": 25, "city": "London"},
 {"name": "Charlie", "age": 35, "city": "Paris"}
11 11 11
# Load JSON data into a DataFrame using StringIO
df from json = pd.read json(StringIO(json data))
print("\nData from JSON:")
display(df from json)
import pandas as pd
# Create a sample DataFrame
df to export = pd.DataFrame({
   'col1': [100, 200, 300],
    'col2': ['apple', 'banana', 'cherry']
})
# Export the DataFrame to an Excel file
output filename = 'exported data.xlsx'
df to export.to excel(output filename, index=False)
print(f"DataFrame successfully exported to {output_filename}")
```

OUTPUT:

```
Id SepalLengthCm SepalWidthCm PetalLengthCm PetalWidthCm Species
                                       0.2 Iris-setosa
0
  1
             5.1
                       3.5
                                   1.4
1
             4.9
                       3.0
                                              0.2 Iris-setosa
  2
                                   1.4
2 3
             4.7
                       3.2
                                  1.3
                                             0.2 Iris-setosa
3 4
             4.6
                       3.1
                                  1.5
                                              0.2 Iris-setosa
4 5
                                              0.2 Iris-setosa
             5.0
                       3.6
                                   1.4
 col1 col2
0 100 apple
1 200 banana
 300 cherry
```

	Id	SepalLengthCm	SepalWidthCm	PetalLengthCm	PetalWidthCm	Species
0	1	5.1	3.5	1.4	0.2	Iris-setosa
1	2	4.9	3.0	1.4	0.2	Iris-setosa
2	3	4.7	3.2	1.3	0.2	Iris-setosa
3	4	4.6	3.1	1.5	0.2	Iris-setosa
4	5	5.0	3.6	1.4	0.2	Iris-setosa

web scrapping

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0 Largest economies in the world by GDP (nominal...

This domain is for use in illustrative examples in documents. You may use this domain in literature without prior coordination or asking for permission. More information...

Data from JSON:

city	age	name	
New York	30	Alice	0
London	25	Bob	1
Paris	35	Charlie	2

DataFrame successfully exported to exported_data.xlsx

RESULT:

Thus the program was written and executed successfully.