In [1]:
```
!pip install bs4
!pip install requests
```

```
Defaulting to user installation because normal site-packages is not writeable
Requirement already satisfied: bs4 in c:\users\admin\appdata\roaming\python\python39\site-packages (0.0.1)
Requirement already satisfied: beautifulsoup4 in c:\programdata\anaconda3\lib\site-packages (from bs4) (4.11.1)
Requirement already satisfied: soupsieve>1.2 in c:\programdata\anaconda3\lib\site-packages (from beautifulsoup4
->bs4) (2.3.1)
Defaulting to user installation because normal site-packages is not writeable
Requirement already satisfied: requests in c:\programdata\anaconda3\lib\site-packages (2.28.1)
Requirement already satisfied: idna<4,>=2.5 in c:\programdata\anaconda3\lib\site-packages (from requests) (3.3)
Requirement already satisfied: certifi>=2017.4.17 in c:\programdata\anaconda3\lib\site-packages (from requests)
(2022.9.14)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\programdata\anaconda3\lib\site-packages (from reques
ts) (1.26.11)
Requirement already satisfied: charset-normalizer<3,>=2 in c:\programdata\anaconda3\lib\site-packages (from req
uests) (2.0.4)
```

In [3]:
```
import requests
import pandas as pd
from bs4 import BeautifulSoup
```

In [4]:
```
page =requests.get('https://en.wikipedia.org/wiki/Main_Page')
page
```

Out[4]:
```
<Response [200]>
```

In [5]:
```
soup =BeautifulSoup(page.content)
```

In [4]:
```
first_title = soup.find('span',class_="mw-headline")
first_title
```

Out[4]:
```
<span class="mw-headline" id="Welcome_to_Wikipedia">Welcome to <a href="/wiki/Wikipedia" title="Wikipedia">Wiki
pedia</a></span>
```

In [5]:
```
first_title.text
```

Out[5]:
```
'Welcome to Wikipedia'
```

In [6]:
```
titles = []

for i in soup.find_all('span',class_="mw-headline"):
    titles.append(i.text)


titles
import pandas as pd
df = pd.DataFrame({'Titles':titles})
df
```

Out[6]:

	Titles
0	Welcome to Wikipedia
1	From today's featured article
2	Did you know ...
3	In the news
4	On this day
5	Today's featured picture
6	Other areas of Wikipedia
7	Wikipedia's sister projects
8	Wikipedia languages

In [7]:
```
import requests
import pandas as pd
from bs4 import BeautifulSoup

def scrape_odi_teams(url):
    response = requests.get(url)
    soup = BeautifulSoup(response.content, 'html.parser')

    teams_data = []
    table = soup.find('table', class_='table')
    rows = table.find_all('tr')

    for row in rows[1:11]:
        columns = row.find_all('td')
        team = columns[1].find('span', class_='u-hide-phablet').text.strip()
        matches = columns[2].text.strip()
        points = columns[3].text.strip()
        rating = columns[4].text.strip()
```

```
        teams_data.append({'Team': team, 'Matches': matches, 'Points': points, 'Rating': rating})

    df = pd.DataFrame(teams_data)
    return df
def scrape_odi_players(url):
    response = requests.get(url)
    soup = BeautifulSoup(response.content, 'html.parser')

    players_data = []
    table = soup.find('table', class_='table rankings-table')
    rows = table.find_all('tr')

    for row in rows[1:11]:
        columns = row.find_all('td')
        player = columns[1].find('a').text.strip()
        team = columns[3].text.strip()
        rating = columns[4].text.strip()
        players_data.append({'Player': player, 'Team': team, 'Rating': rating})

    df = pd.DataFrame(players_data)
    return df


odi_teams_url = 'https://www.icc-cricket.com/rankings/mens/team-rankings/odi'
odi_batsmen_url = 'https://www.icc-cricket.com/rankings/mens/player-rankings/odi/batting'
odi_bowlers_url = 'https://www.icc-cricket.com/rankings/mens/player-rankings/odi/bowling'


odi_teams_df = scrape_odi_teams(odi_teams_url)


odi_batsmen_df = scrape_odi_players(odi_batsmen_url)


odi_bowlers_df = scrape_odi_players(odi_bowlers_url)

print("Top 10 ODI Teams:")
print(odi_teams_df)
print("\nTop 10 ODI Batsmen:")
print(odi_batsmen_df)
print("\nTop 10 ODI Bowlers:")
print(odi_bowlers_df)
```

```
Top 10 ODI Teams:
           Team Matches Points Rating
0     Australia      23  2,714    118
1      Pakistan      20  2,316    116
2         India      36  4,081    113
3   New Zealand      27  2,806    104
4       England      24  2,426    101
5  South Africa      19  1,910    101
6    Bangladesh      28  2,661     95
7   Afghanistan      16  1,404     88
8     Sri Lanka      32  2,794     87
9   West Indies      38  2,582     68

Top 10 ODI Batsmen:
                  Player Team                         Rating
0                         886  898 v West Indies, 10/06/2022
1  Rassie van der Dussen  777      796 v England, 19/07/2022
2           Fakhar Zaman  755  784 v New Zealand, 29/04/2023
3            Imam-ul-Haq  745  815 v West Indies, 12/06/2022
4           Shubman Gill  743  743 v West Indies, 01/08/2023
5           Harry Tector  726        726 v Nepal, 04/07/2023
6           David Warner  726     880 v Pakistan, 26/01/2017
7        Quinton de Kock  718    813 v Sri Lanka, 10/03/2019
8            Virat Kohli  705      911 v England, 12/07/2018
9            Steve Smith  702     752 v Pakistan, 22/01/2017

Top 10 ODI Bowlers:
             Player Team                          Rating
0                   705      733 v England, 26/01/2018
1    Mitchell Starc  686  783 v New Zealand, 29/03/2015
2       Rashid Khan  682     806 v Pakistan, 21/09/2018
3    Mohammed Siraj  670  736 v New Zealand, 21/01/2023
4        Matt Henry  667   691 v Bangladesh, 26/03/2021
5  Mujeeb Ur Rahman  661      712 v Ireland, 24/01/2021
6       Trent Boult  660    775 v Australia, 11/09/2022
7        Adam Zampa  652      655 v England, 22/11/2022
8    Shaheen Afridi  630  688 v West Indies, 10/06/2022
9     Kuldeep Yadav  622  765 v New Zealand, 26/01/2019
```

In [8]:

```
import requests
import pandas as pd
from bs4 import BeautifulSoup

def scrape_womens_odi_teams(url):
    response = requests.get(url)
    soup = BeautifulSoup(response.content, 'html.parser')
```

```
    teams_data = []
    table = soup.find('table', class_='table')
    rows = table.find_all('tr')

    for row in rows[1:11]:  # Skipping the header row and taking the top 10 teams
        columns = row.find_all('td')
        team = columns[1].find('span', class_='u-hide-phablet').text.strip()
        matches = columns[2].text.strip()
        points = columns[3].text.strip()
        rating = columns[4].text.strip()
        teams_data.append({'Team': team, 'Matches': matches, 'Points': points, 'Rating': rating})

    df = pd.DataFrame(teams_data)
    return df
def scrape_womens_odi_players(url):
    response = requests.get(url)
    soup = BeautifulSoup(response.content, 'html.parser')

    players_data = []
    table = soup.find('table', class_='table rankings-table')
    rows = table.find_all('tr')

    for row in rows[1:11]:
        columns = row.find_all('td')
        player = columns[1].find('a').text.strip()
        team = columns[3].text.strip()
        rating = columns[4].text.strip()
        players_data.append({'Player': player, 'Team': team, 'Rating': rating})

    df = pd.DataFrame(players_data)
    return df


womens_odi_teams_url = 'https://www.icc-cricket.com/rankings/womens/team-rankings/odi'
womens_odi_batting_url = 'https://www.icc-cricket.com/rankings/womens/player-rankings/odi/batting'
womens_odi_allrounder_url = 'https://www.icc-cricket.com/rankings/womens/player-rankings/odi/all-rounder'


womens_odi_teams_df = scrape_womens_odi_teams(womens_odi_teams_url)


womens_odi_batting_df = scrape_womens_odi_players(womens_odi_batting_url)


womens_odi_allrounder_df = scrape_womens_odi_players(womens_odi_allrounder_url)

print("Top 10 Women's ODI Teams:")
print(womens_odi_teams_df)
print("\nTop 10 Women's ODI Batting Players:")
print(womens_odi_batting_df)
print("\nTop 10 Women's ODI All-rounders:")
print(womens_odi_allrounder_df)
```

```
Top 10 Women's ODI Teams:
          Team Matches Points Rating
0     Australia      26  4,290    165
1       England      31  3,875    125
2  South Africa      26  3,098    119
3         India      30  3,039    101
4   New Zealand      28  2,688     96
5   West Indies      29  2,743     95
6    Bangladesh      17  1,284     76
7     Sri Lanka      12    820     68
8      Thailand      13    883     68
9      Pakistan      27  1,678     62

Top 10 Women's ODI Batting Players:
                Player Team                         Rating
0                    803    803 v Australia, 18/07/2023
1  Chamari Athapaththu  758  758 v New Zealand, 03/07/2023
2          Beth Mooney  751      776 v England, 12/07/2023
3      Laura Wolvaardt  732    741 v Australia, 22/03/2022
4      Smriti Mandhana  708      797 v England, 28/02/2019
5         Alyssa Healy  702      785 v England, 03/04/2022
6     Harmanpreet Kaur  694      731 v England, 21/09/2022
7         Ellyse Perry  686  766 v West Indies, 11/09/2019
8          Meg Lanning  682  834 v New Zealand, 24/02/2016
9      Stafanie Taylor  618     766 v Pakistan, 07/07/2021

Top 10 Women's ODI All-rounders:
             Player Team                         Rating
0                    421     421 v Australia, 18/07/2023
1  Ashleigh Gardner  389       389 v Ireland, 28/07/2023
2   Hayley Matthews  382       392 v Ireland, 26/06/2023
3    Marizanne Kapp  349   419 v West Indies, 10/09/2021
4      Ellyse Perry  329   548 v West Indies, 11/09/2019
5       Amelia Kerr  328   356 v West Indies, 25/09/2022
6     Deepti Sharma  312  397 v South Africa, 09/10/2019
7     Jess Jonassen  241   308 v West Indies, 11/09/2019
8     Sophie Devine  233     305 v Australia, 05/10/2020
9          Nida Dar  232     232 v Australia, 21/01/2023
```

In [6]:
```
import requests
import pandas as pd
from bs4 import BeautifulSoup
```

In [7]:
```
page = requests.get('https://www.cnbc.com/world/?region=world')
page
soup =BeautifulSoup(page.content)
```

In [13]:
```
headlines = []

for i in soup.find_all('div',class_ ="RiverPlusCard-cardLeft"):
    headlines.append(i.text)

headlines
import pandas as pd
df = pd.DataFrame({'Headlines':headlines})
df
```

Out[13]:

	Headlines
0	Russian missile attack kills 7 in northern Ukr...
1	Can expensive, American-made weapons like F-16...
2	Citi says this high-flying Brazilian stock can...
3	British Columbia wildfires intensify, doubling...
4	Russia's Luna-25 smashes into moon in failure
5	China launches drills in angry response to Tai...
6	As Maui rebuilds, residents reckon with touris...
7	It may be tough for Apple to outperform from h...
8	Saudi crown prince meets Iran's foreign minist...
9	Stock markets face a 'perfect storm' as high r...
10	Bitcoin breaks below $26,000, posts worst week...
11	New Covid vaccines from Pfizer, Moderna and No...
12	DC's 'Blue Beetle' tries to take down 'Barbie'...
13	Elon Musk says users on X, formerly Twitter, w...
14	Trump decides to snub the first GOP debate in ...
15	Automakers are finally embracing lidar sensors...
16	Hong Kong's benchmark Hang Seng index closes i...
17	Disney goes on offense in DeSantis board's law...

In [18]:

```
time = []

for i in soup.find_all('div',class_="LatestNews-container"):
    time.append(i.text)

time
import pandas as pd
df = pd.DataFrame({'Time':time})
df
```

Out[18]:

	Time
0	17 Hours AgoWhy 'career choices' is the No. 1 ...
1	19 Hours AgoCruise will reduce robotaxi fleet ...
2	19 Hours AgoCan American-made weapons like F-1...
3	21 Hours AgoHarvard gut doctor avoids these 4 ...
4	21 Hours AgoThe clash of sustainability and AI...
5	21 Hours AgoOn tap next week: 2 housing report...
6	21 Hours AgoTop 10 best European cities for re...
7	22 Hours AgoGoogle's plan to purge inactive ac...
8	22 Hours AgoThe No. 1 best state to retire in ...
9	22 Hours AgoMark Cuban passed on an Uber inves...
10	23 Hours AgoBelieving these 5 Social Security ...
11	23 Hours AgoHere's why Aldi is looking to the ...
12	23 Hours AgoHere's how the Huy Fong Foods srir...
13	23 Hours AgoThis ETF is soaring in August as m...
14	23 Hours AgoMorgan Stanley is among the most o...
15	23 Hours AgoBuy these stocks with upside as ma...
16	August 18, 2023Palo Alto shares rise on earnin...
17	August 18, 2023Wall Street awaits hotly antici...
18	August 18, 2023WeWork plunges another 11% afte...
19	August 18, 2023The iPhone 15 could get one of ...
20	August 18, 2023Coral bleaching event in Florid...
21	August 18, 2023Bitcoin is giving a bearish sig...
22	August 18, 2023Earnings show shoppers will spe...
23	August 18, 2023Nvidia, key Powell speech to ta...
24	August 18, 2023My HomePod is now a very expens...
25	August 18, 20233 trends are dividing restauran...
26	August 18, 2023How hurricanes may affect the 2...
27	August 18, 2023Rosenblatt names its top picks ...
28	August 18, 2023It may be tough for Apple to ou...
29	August 18, 2023'Blue Beetle' tries to take dow...

In [19]:
```
link = []

for i in soup.find_all('div',class_="QuickLinks-deviceHeader QuickLinks-desktopHeader"):
    link.append(i.text)

link
import pandas as pd
df = pd.DataFrame({'Link':link})
df
```

Out[19]:

	Link
0	Quick Links

In [8]:
```
import requests
import pandas as pd
from bs4 import BeautifulSoup
```

In [9]:
```
page =requests.get('https://www.journals.elsevier.com/artificial-intelligence/most-downloaded-articles')
page
soup =BeautifulSoup(page.content)
```

In [25]:
```
paper_title = []

for i in soup.find_all('h2',class_="sc-1qrq3sd-1 gRGSUS sc-1nmom32-0 sc-1nmom32-1 btcbYu goSKRg"):
    paper_title .append(i.text)

paper_title
import pandas as pd
df = pd.DataFrame({'Paper_title':paper_title})
df
```

Out[25]:

	Paper_title
0	Reward is enough
1	Explanation in artificial intelligence: Insigh...
2	Creativity and artificial intelligence
3	Conflict-based search for optimal multi-agent ...
4	Knowledge graphs as tools for explainable mach...
5	Law and logic: A review from an argumentation ...
6	Between MDPs and semi-MDPs: A framework for te...
7	Explaining individual predictions when feature...
8	Multiple object tracking: A literature review
9	A survey of inverse reinforcement learning: Ch...
10	Evaluating XAI: A comparison of rule-based and...
11	Explainable AI tools for legal reasoning about...
12	Hard choices in artificial intelligence
13	Assessing the communication gap between AI mod...
14	Explaining black-box classifiers using post-ho...
15	The Hanabi challenge: A new frontier for AI re...
16	Wrappers for feature subset selection
17	Artificial cognition for social human–robot in...
18	A review of possible effects of cognitive bias...
19	The multifaceted impact of Ada Lovelace in the...
20	Robot ethics: Mapping the issues for a mechani...
21	Reward (Mis)design for autonomous driving
22	Planning and acting in partially observable st...
23	What do we want from Explainable Artificial In...

In [26]:

```
authors = []

for i in soup.find_all('span',class_="sc-1w3fpd7-0 dnCnAO"):
    authors .append(i.text)

authors
import pandas as pd
df = pd.DataFrame({'Authors':authors})
df
```

Out[26]:

	Authors
0	David Silver, Satinder Singh, Doina Precup, Ri...
1	Tim Miller
2	Margaret A. Boden
3	Guni Sharon, Roni Stern, Ariel Felner, Nathan ...
4	Ilaria Tiddi, Stefan Schlobach
5	Henry Prakken, Giovanni Sartor
6	Richard S. Sutton, Doina Precup, Satinder Singh
7	Kjersti Aas, Martin Jullum, Anders Løland
8	Wenhan Luo, Junliang Xing and 4 more
9	Saurabh Arora, Prashant Doshi
10	Jasper van der Waa, Elisabeth Nieuwburg, Anita...
11	Joe Collenette, Katie Atkinson, Trevor Bench-C...
12	Roel Dobbe, Thomas Krendl Gilbert, Yonatan Mintz
13	Oskar Wysocki, Jessica Katharine Davies and 5 ...
14	Eoin M. Kenny, Courtney Ford, Molly Quinn, Mar...
15	Nolan Bard, Jakob N. Foerster and 13 more
16	Ron Kohavi, George H. John
17	Séverin Lemaignan, Mathieu Warnier and 3 more
18	Tomáš Kliegr, Štěpán Bahník, Johannes Fürnkranz
19	Luigia Carlucci Aiello
20	Patrick Lin, Keith Abney, George Bekey
21	W. Bradley Knox, Alessandro Allievi and 3 more
22	Leslie Pack Kaelbling, Michael L. Littman, Ant...
23	Markus Langer, Daniel Oster and 6 more

In [27]:

```
published_date = []

for i in soup.find_all('span',class_="sc-1thf9ly-2 dvggWt"):
    published_date .append(i.text)

published_date
import pandas as pd
df = pd.DataFrame({'Published_date':published_date})
df
```

Out[27]:

	Published_date
0	October 2021
1	February 2019
2	August 1998
3	February 2015
4	January 2022
5	October 2015
6	August 1999
7	September 2021
8	April 2021
9	August 2021
10	February 2021
11	April 2023
12	November 2021
13	March 2023
14	May 2021
15	March 2020
16	December 1997
17	June 2017
18	June 2021
19	June 2016
20	April 2011
21	March 2023
22	May 1998
23	July 2021

In [10]:
```
import requests
import pandas as pd
from bs4 import BeautifulSoup
```

In [12]:
```
page = requests.get('https://www.dineout.co.in/pune-restaurants/20instant-discount')
page
soup =BeautifulSoup(page.content)
```

In [33]:
```
names = []

for i in soup.find_all('div',class_="restnt-info cursor"):
    names.append(i.text)

names
import pandas as pd
df = pd.DataFrame({'Names':names})
df
```

Out[33]:

	Names
0	TTF - The Tenth FloorDeron Heights,Baner, West...
1	Godaam Speciality Coffee Co.Model Colony, West...
2	TamtreeShivaji Nagar, West Pune
3	Pardon My FrenchAnjali apartment,Senapati Bapa...
4	Oriental FusionRamee Grand Hotel,Shivaji Nagar...
5	It's MirchiRamee Grand Hotel,Shivaji Nagar, We...
6	KheemawalaDeccan Gymkhana, West Pune
7	Quench Bar & EateryAundh, West Pune
8	SloungeLemon Tree Premier,Bund Garden Road, Ea...
9	Sudama BhelSadashiv Peth, South Pune
10	Citrus CafeLemon Tree Premier,Bund Garden Road...
11	One ChinaKothrud, West Pune
12	RetoxErandwane, West Pune
13	Sailors & Co.Kothrud, West Pune
14	La GustosaKothrud, West Pune
15	Surbhi Malvani by Monarch MontvertRiversea Soc...
16	Lallantop Dhaba BarThe Mint Building,Baner, We...
17	The ChicksterKoregaon Park, East Pune
18	Baffin BayThe Mint Building,Baner, West Pune
19	Italy Via PunjabDeccan Gymkhana, West Pune
20	7th HeavenKothrud, West Pune

In [34]:

```
cuisine = []

for i in soup.find_all('span',class_="double-line-ellipsis"):
    cuisine.append(i.text)

cuisine
import pandas as pd
df = pd.DataFrame({'Cuisine':cuisine})
df
```

Out[34]:

	Cuisine
0	₹ 2,300 for 2 (approx) | North Indian, Contine...
1	₹ 1,000 for 2 (approx) | Italian, Fast Food, B...
2	₹ 800 for 2 (approx) | Italian, Chinese, Fast ...
3	₹ 600 for 2 (approx) | American, Continental, ...
4	₹ 1,800 for 2 (approx) | North Indian, World C...
5	₹ 2,000 for 2 (approx) | North Indian, Seafood
6	₹ 600 for 2 (approx) | North Indian, Fast Food
7	₹ 1,000 for 2 (approx) | Continental, North In...
8	₹ 1,500 for 2 (approx) | Finger Food, North In...
9	₹ 200 for 2 (approx) | Street Food
10	₹ 1,700 for 2 (approx) | Continental, North In...
11	₹ 500 for 2 (approx) | Chinese, Asian
12	₹ 2,000 for 2 (approx) | Asian, Finger Food, N...
13	₹ 1,600 for 2 (approx) | North Indian, Contine...
14	₹ 1,400 for 2 (approx) | Italian
15	₹ 1,000 for 2 (approx) | Malvani, Chinese, Nor...
16	₹ 1,500 for 2 (approx) | North Indian, Chinese...
17	₹ 400 for 2 (approx) | Arabian, Fast Food, Ame...
18	₹ 1,200 for 2 (approx) | Chinese, North Indian...
19	₹ 1,000 for 2 (approx) | Italian, North Indian...
20	₹ 400 for 2 (approx) | Desserts

In [35]:

```
locations = []

for i in soup.find_all('div',class_="restnt-loc ellipsis"):
    locations.append(i.text)
```

```
locations
import pandas as pd
df = pd.DataFrame({'Locations':locations})
df
```

Out[35]:

	Locations
0	Deron Heights,Baner, West Pune
1	Model Colony, West Pune
2	Shivaji Nagar, West Pune
3	Anjali apartment,Senapati Bapat Road, West Pune
4	Ramee Grand Hotel,Shivaji Nagar, West Pune
5	Ramee Grand Hotel,Shivaji Nagar, West Pune
6	Deccan Gymkhana, West Pune
7	Aundh, West Pune
8	Lemon Tree Premier,Bund Garden Road, East Pune
9	Sadashiv Peth, South Pune
10	Lemon Tree Premier,Bund Garden Road, East Pune
11	Kothrud, West Pune
12	Erandwane, West Pune
13	Kothrud, West Pune
14	Kothrud, West Pune
15	Riversea Society,Baner, West Pune
16	The Mint Building,Baner, West Pune
17	Koregaon Park, East Pune
18	The Mint Building,Baner, West Pune
19	Deccan Gymkhana, West Pune
20	Kothrud, West Pune

In [36]:

```
ratings = []

for i in soup.find_all('div',class_="restnt-rating rating-4"):
    ratings.append(i.text)

ratings
import pandas as pd
df = pd.DataFrame({'Ratings':ratings})
df
```

Out[36]:

	Ratings
0	3.9
1	4.1
2	3.6
3	4.2
4	4.2
5	4.3
6	3.8
7	4
8	4.2
9	4.3
10	4.3
11	4.2

In [37]:

```
images_url = []

for i in soup.find_all("img",class_="no-img"):
    images_url.append(i['data-src'])

images_url
import pandas as pd
df = pd.DataFrame({'Images_url':images_url})
df
```

Out[37]:

	Images_url
0	https://im1.dineout.co.in/images/uploads/resta...
1	https://im1.dineout.co.in/images/uploads/resta...
2	https://im1.dineout.co.in/images/uploads/resta...
3	https://im1.dineout.co.in/images/uploads/resta...
4	https://im1.dineout.co.in/images/uploads/resta...
5	https://im1.dineout.co.in/images/uploads/resta...
6	https://im1.dineout.co.in/images/uploads/resta...
7	https://im1.dineout.co.in/images/uploads/resta...
8	https://im1.dineout.co.in/images/uploads/resta...
9	https://im1.dineout.co.in/images/uploads/resta...
10	https://im1.dineout.co.in/images/uploads/resta...
11	https://im1.dineout.co.in/images/uploads/resta...
12	https://im1.dineout.co.in/images/uploads/resta...
13	https://im1.dineout.co.in/images/uploads/resta...
14	https://im1.dineout.co.in/images/uploads/resta...
15	https://im1.dineout.co.in/images/uploads/resta...
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