In [81]:
```python
#Q.1y all the header tags from wikipedia.org a
!pip install bs4
!pip install requests
```

Requirement already satisfied: bs4 in c:\users\user\anaconda3\lib\site-packag
es (0.0.1)
Requirement already satisfied: beautifulsoup4 in c:\users\user\anaconda3\lib
\site-packages (from bs4) (4.12.2)
Requirement already satisfied: soupsieve>1.2 in c:\users\user\anaconda3\lib\s
ite-packages (from beautifulsoup4->bs4) (2.4)
Requirement already satisfied: requests in c:\users\user\anaconda3\lib\site-p
ackages (2.31.0)
Requirement already satisfied: charset-normalizer<4,>=2 in c:\users\user\anac
onda3\lib\site-packages (from requests) (2.0.4)
Requirement already satisfied: idna<4,>=2.5 in c:\users\user\anaconda3\lib\si
te-packages (from requests) (3.4)
Requirement already satisfied: urllib3<3,>=1.21.1 in c:\users\user\anaconda3
\lib\site-packages (from requests) (1.26.16)
Requirement already satisfied: certifi>=2017.4.17 in c:\users\user\anaconda3
\lib\site-packages (from requests) (2023.7.22)

In [82]:
```python
from bs4 import BeautifulSoup
import requests
```

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

Out[4]: <Response [200]>

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

```
<meta content="wikipedia, the free encyclopedia" property="og:title"/>
<meta content="website" property="og:type"/>
<link href="//upload.wikimedia.org" rel="preconnect"/>
<link href="//en.m.wikipedia.org/wiki/Main_Page" media="only screen and (m
ax-width: 720px)" rel="alternate"/>
<link href="/w/api.php?action=featuredfeed&amp;feed=potd&amp;feedformat=at
om" rel="alternate" title="Wikipedia picture of the day feed" type="applic
ation/atom+xml"/>
<link href="/w/api.php?action=featuredfeed&amp;feed=featured&amp;feedforma
t=atom" rel="alternate" title="Wikipedia featured articles feed" type="app
lication/atom+xml"/>
<link href="/w/api.php?action=featuredfeed&amp;feed=onthisday&amp;feedform
at=atom" rel="alternate" title='Wikipedia "On this day..." feed' type="app
lication/atom+xml"/>
<link href="/static/apple-touch/wikipedia.png" rel="apple-touch-icon"/>
<link href="/static/favicon/wikipedia.ico" rel="icon"/>
<link href="/w/opensearch_desc.php" rel="search" title="Wikipedia (en)" ty
pe="application/opensearchdescription+xml"/>
<link href="//en.wikipedia.org/w/api.php?action=rsd" rel="EditURI" type="a
pplication/rsd+xml"/>
```

In [6]:
```python
first_titles = soup.find('span',class_="mw-headline")
first_titles
```

Out[6]: `<span class="mw-headline" id="Welcome_to_Wikipedia">Welcome to <a href="/wik i/Wikipedia" title="Wikipedia">Wikipedia</a></span>`

In [7]:
```python
first_titles.text
```

Out[7]: `'Welcome to Wikipedia'`

In [8]:
```python
titles =[]
for i in soup.find_all('span',class_="mw-headline"):
    titles.append(i.text)

titles
```

Out[8]:
```
['Welcome to Wikipedia',
 "From today's featured article",
 'Did you know\xa0...',
 'In the news',
 'On this day',
 "Today's featured picture",
 'Other areas of Wikipedia',
 "Wikipedia's sister projects",
 'Wikipedia languages']
```

In [9]:
```python
print(len (titles))
```

```
9
```

In [10]:
```python
import pandas as pd
df = pd.DataFrame({'Titels':titles})
df
```

Out[10]:

	Titels
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 [11]: *#Q.2most downloaded articles from AI in last 90 days.*

In [12]:
```
page = requests.get(' https://www.journals.elsevier.com/artificial-intelligenc
page
```

Out[12]: <Response [200]>

In [13]:
```
soup = BeautifulSoup(page.content)
soup
```

ot;:"https://schema.org","@type":"Periodical&quo
t;,"issn":"0004-3702","name":"Artificia
l Intelligence","publisher":"Elsevier","acqu
ireLicensePage":"https://www.elsevier.com/journals/artificial-in
telligence/0004-3702/subscribe?subscriptiontype=institutional"}</scri
pt><link as="image" imagesizes="100vw" imagesrcset="/images/logos/elsevier
-graphic.svg 640w, /images/logos/elsevier-graphic.svg 750w, /images/logos/
elsevier-graphic.svg 828w, /images/logos/elsevier-graphic.svg 1080w, /imag
es/logos/elsevier-graphic.svg 1200w, /images/logos/elsevier-graphic.svg 19
20w, /images/logos/elsevier-graphic.svg 2048w, /images/logos/elsevier-grap
hic.svg 3840w" rel="preload"/><link as="image" imagesizes="100vw" imagesrc
set="/images/logos/elsevier-wordmark.svg 640w, /images/logos/elsevier-word
mark.svg 750w, /images/logos/elsevier-wordmark.svg 828w, /images/logos/els
evier-wordmark.svg 1080w, /images/logos/elsevier-wordmark.svg 1200w, /imag
es/logos/elsevier-wordmark.svg 1920w, /images/logos/elsevier-wordmark.svg
2048w, /images/logos/elsevier-wordmark.svg 3840w" rel="preload"/><meta con
tent="23" name="next-head-count"/><link as="font" crossorigin="" href="/fo
nts/NexusSansWebPro-Regular.woff2" rel="preload" type="font/woff2"/><link
as="font" crossorigin="" href="/fonts/ElsevierGulliver-Regular.woff2" rel
="preload" type="font/woff2"/><script src="//assets.adobedtm.com/4a848ae96

In [16]:
```
names = soup.find('h2',class_="sc-1qrq3sd-1 gRGSUS sc-1nmom32-0 sc-1nmom32-1 b
names
```

Out[16]: <h2 class="sc-1qrq3sd-1 gRGSUS sc-1nmom32-0 sc-1nmom32-1 btcbYu goSKRg">Rewar
d is enough</h2>

In [17]: names.text

Out[17]: 'Reward is enough'

In [18]:
```
authors = soup.find('span',class_="sc-1w3fpd7-0 dnCnAO")
authors
```

Out[18]: David Silver, Satinder Singh, Doina Precup,
Richard S. Sutton

In [19]: authors.text

Out[19]: 'David Silver, Satinder Singh, Doina Precup, Richard S. Sutton '

In [20]:
```python
published_date = soup.find('span',class_="sc-1thf9ly-2 dvggWt")
published_date
```

Out[20]: `<span class="sc-1thf9ly-2 dvggWt"><span>October 2021</span></span>`

In [21]:
```python
published_date.text
```

Out[21]: `'October 2021'`

In [22]:
```python
names = []
for i in soup.find_all('h2',class_="sc-1qrq3sd-1 gRGSUS sc-1nmom32-0 sc-1nmom3
    names.append(i.text)
names
```

Out[22]:
```
['Reward is enough',
 'Explanation in artificial intelligence: Insights from the social sciences',
 'Creativity and artificial intelligence',
 'Conflict-based search for optimal multi-agent pathfinding',
 'Knowledge graphs as tools for explainable machine learning: A survey',
 'Law and logic: A review from an argumentation perspective',
 'Between MDPs and semi-MDPs: A framework for temporal abstraction in reinfor
cement learning',
 'Explaining individual predictions when features are dependent: More accurat
e approximations to Shapley values',
 'Multiple object tracking: A literature review',
 'A survey of inverse reinforcement learning: Challenges, methods and progres
s',
 'Evaluating XAI: A comparison of rule-based and example-based explanations',
 'Explainable AI tools for legal reasoning about cases: A study on the Europe
an Court of Human Rights',
 'Hard choices in artificial intelligence',
 'Assessing the communication gap between AI models and healthcare profession
als: Explainability, utility and trust in AI-driven clinical decision-makin
g',
 'Explaining black-box classifiers using post-hoc explanations-by-example: Th
e effect of explanations and error-rates in XAI user studies',
 'The Hanabi challenge: A new frontier for AI research',
 'Wrappers for feature subset selection',
 'Artificial cognition for social human–robot interaction: An implementatio
n',
 'A review of possible effects of cognitive biases on interpretation of rule-
based machine learning models',
 'The multifaceted impact of Ada Lovelace in the digital age',
 'Robot ethics: Mapping the issues for a mechanized world',
 'Reward (Mis)design for autonomous driving',
 'Planning and acting in partially observable stochastic domains',
 'What do we want from Explainable Artificial Intelligence (XAI)? – A stakeho
lder perspective on XAI and a conceptual model guiding interdisciplinary XAI
research']
```

In [23]:
```python
authors = []
for i in soup.find_all('span',class_="sc-1w3fpd7-0 dnCnAO"):
    authors.append(i.text)
authors
```

Out[23]:
```
['David Silver, Satinder Singh, Doina Precup, Richard S. Sutton ',
 'Tim Miller ',
 'Margaret A. Boden ',
 'Guni Sharon, Roni Stern, Ariel Felner, Nathan R. Sturtevant ',
 'Ilaria Tiddi, Stefan Schlobach ',
 'Henry Prakken, Giovanni Sartor ',
 'Richard S. Sutton, Doina Precup, Satinder Singh ',
 'Kjersti Aas, Martin Jullum, Anders Løland ',
 'Wenhan Luo, Junliang Xing and 4 more',
 'Saurabh Arora, Prashant Doshi ',
 'Jasper van der Waa, Elisabeth Nieuwburg, Anita Cremers, Mark Neerincx ',
 'Joe Collenette, Katie Atkinson, Trevor Bench-Capon ',
 'Roel Dobbe, Thomas Krendl Gilbert, Yonatan Mintz ',
 'Oskar Wysocki, Jessica Katharine Davies and 5 more',
 'Eoin M. Kenny, Courtney Ford, Molly Quinn, Mark T. Keane ',
 'Nolan Bard, Jakob N. Foerster and 13 more',
 'Ron Kohavi, George H. John ',
 'Séverin Lemaignan, Mathieu Warnier and 3 more',
 'Tomáš Kliegr, Štěpán Bahník, Johannes Fürnkranz ',
 'Luigia Carlucci Aiello ',
 'Patrick Lin, Keith Abney, George Bekey ',
 'W. Bradley Knox, Alessandro Allievi and 3 more',
 'Leslie Pack Kaelbling, Michael L. Littman, Anthony R. Cassandra ',
 'Markus Langer, Daniel Oster and 6 more']
```

In [24]:
```python
published_date = []
for i in soup.find_all('span',class_="sc-1thf9ly-2 dvggWt"):
    published_date.append(i.text)
published_date
```

Out[24]:
```
['October 2021',
 'February 2019',
 'August 1998',
 'February 2015',
 'January 2022',
 'October 2015',
 'August 1999',
 'September 2021',
 'April 2021',
 'August 2021',
 'February 2021',
 'April 2023',
 'November 2021',
 'March 2023',
 'May 2021',
 'March 2020',
 'December 1997',
 'June 2017',
 'June 2021',
 'June 2016',
 'April 2011',
 'March 2023',
 'May 1998',
 'July 2021']
```

In [25]:
```python
print(len(names),len(authors),len(published_date))
```

```
24 24 24
```

```python
import pandas as pd
df = pd.DataFrame({'Names':names,'Authors':authors,'Published_date':published_
df
```

Out[33]:

	Names	Authors	Published_date
0	Reward is enough	David Silver, Satinder Singh, Doina Precup, Ri...	October 2021
1	Explanation in artificial intelligence: Insigh...	Tim Miller	February 2019
2	Creativity and artificial intelligence	Margaret A. Boden	August 1998
3	Conflict-based search for optimal multi-agent ...	Guni Sharon, Roni Stern, Ariel Felner, Nathan ...	February 2015
4	Knowledge graphs as tools for explainable mach...	Ilaria Tiddi, Stefan Schlobach	January 2022
5	Law and logic: A review from an argumentation ...	Henry Prakken, Giovanni Sartor	October 2015
6	Between MDPs and semi-MDPs: A framework for te...	Richard S. Sutton, Doina Precup, Satinder Singh	August 1999
7	Explaining individual predictions when feature...	Kjersti Aas, Martin Jullum, Anders Løland	September 2021
8	Multiple object tracking: A literature review	Wenhan Luo, Junliang Xing and 4 more	April 2021
9	A survey of inverse reinforcement learning: Ch...	Saurabh Arora, Prashant Doshi	August 2021
10	Evaluating XAI: A comparison of rule-based and...	Jasper van der Waa, Elisabeth Nieuwburg, Anita...	February 2021
11	Explainable AI tools for legal reasoning about...	Joe Collenette, Katie Atkinson, Trevor Bench-C...	April 2023
12	Hard choices in artificial intelligence	Roel Dobbe, Thomas Krendl Gilbert, Yonatan Mintz	November 2021
13	Assessing the communication gap between AI mod...	Oskar Wysocki, Jessica Katharine Davies and 5 ...	March 2023
14	Explaining black-box classifiers using post-ho...	Eoin M. Kenny, Courtney Ford, Molly Quinn, Mar...	May 2021
15	The Hanabi challenge: A new frontier for AI re...	Nolan Bard, Jakob N. Foerster and 13 more	March 2020
16	Wrappers for feature subset selection	Ron Kohavi, George H. John	December 1997
17	Artificial cognition for social human–robot in...	Séverin Lemaignan, Mathieu Warnier and 3 more	June 2017
18	A review of possible effects of cognitive bias...	Tomáš Kliegr, Štěpán Bahník, Johannes Fürnkranz	June 2021
19	The multifaceted impact of Ada Lovelace in the...	Luigia Carlucci Aiello	June 2016
20	Robot ethics: Mapping the issues for a mechani...	Patrick Lin, Keith Abney, George Bekey	April 2011
21	Reward (Mis)design for autonomous driving	W. Bradley Knox, Alessandro Allievi and 3 more	March 2023
22	Planning and acting in partially observable st...	Leslie Pack Kaelbling, Michael L. Littman, Ant...	May 1998
23	What do we want from Explainable Artificial In...	Markus Langer, Daniel Oster and 6 more	July 2021

In [34]: *#Q.3 list of respected former presidents of India*

In [35]:
```
page = requests.get('https://currentaffairs.adda247.com/list-of-presidents-of-
page
```

Out[35]: <Response [200]>

In [37]:
```
soup = BeautifulSoup(page.content)
soupsoup = BeautifulSoup(page.content)
soup
```

Out[37]:
```
<!DOCTYPE html>
<html lang="en-IN">
<head>
<!--<script src="https://apis.google.com/js/platform.js" async defer></scr
ipt>
        <meta name="google-signin-client_id" content="117575776360-se3ubak
rmij2q5mouk2rk46740ipurca.apps.googleusercontent.com">-->
<meta charset="utf-8"/>
<meta content="width=device-width, initial-scale=1" name="viewport"/>
<meta content="List of Presidents of India From 1950 to 2023" property="o
g:title"/>
<meta content="https://currentaffairs.adda247.com/list-of-presidents-of-in
dia/" property="og:url"/>
<meta content="articles" property="og:type"/>
<meta content="adda247" property="og:site_name"/>
<meta content="President of India 2023 The first citizen of India is the p
resident of India. The President of India is elected..." property="og:desc
ription"/>
<meta content="https://wpassets.adda247.com/wp-content/uploads/multisite/s
```

In [38]:
```
names = soup.find('td',width="220")
names
```

Out[38]:
```
<td rowspan="2" width="220">
<p style="text-align: center"><strong>Name</strong></p>
</td>
```

In [39]: `names.text`

Out[39]: '\nName\n'

In [40]:
```
startdate = soup.find('td',width="180")
startdate
```

Out[40]:
```
<td width="180">
<p style="text-align: center"><strong>Start Date</strong></p>
</td>
```

In [41]:
```python
startdate.text
```

Out[41]: '\nStart Date\n'

In [42]:
```python
names =[]
for i in soup.find_all('td',width="220"):
    names.append(i.text)

names
```

Out[42]:
```
['\nName\n',
 'Dr. Rajendra Prasad',
 'Dr. Sarvepalli Radhakrishnan',
 'Dr. Zakir Hussain',
 'Varahagiri Venkata Giri',
 'Varahagiri Venkata Giri',
 'Fakhruddin Ali Ahmed',
 'Neelam Sanjiva Reddy',
 'Giani Zali Singh',
 'Ramaswamy Venkataraman',
 'Shankar Dayal Sharma',
 'Kocheril Raman Narayanan',
 'Dr. A.P.J. Abdul Kalam',
 'Pratibha Patil',
 'Pranab Mukherjee',
 'Shri Ram Nath Kovind',
 'Draupadi Murmu']
```

In [43]:
```python
startdate = []
for i in soup.find_all('td',width="180"):
    startdate.append(i.text)
startdate
```

Out[43]:
```
['\nStart Date\n',
 '26 January 1950',
 '13 May 1962',
 '13 May 1967',
 '3 May 1969',
 '24 August 1969',
 '24 August 1974',
 '25 July 1977',
 '25 July 1982',
 '25 July 1987',
 '25 July 1992',
 '25 July 1997',
 '25 July 2002',
 '25 July 2007',
 '25 July 2012',
 '25 July 2017',
 '21 July 2022']
```

In [44]:
```python
closingdate = soup.find('td',width="201")
closingdate
```

Out[44]: `<td width="201"><strong>Closing date</strong></td>`

In [45]:
```python
closingdate = []
for i in soup.find_all('td',width="201"):
    closingdate.append(i.text)
closingdate
```

Out[45]:
```
['Closing date',
 '13 May 1962',
 '13 May 1967',
 '3 May 1969',
 '20 July 1969',
 '24 August 1974',
 '11 February 1977',
 '25 July 1982',
 '25 July 1987',
 '25 July 1992',
 '25 July 1997',
 '25 July 2002',
 '25 July 2007',
 '25 July 2012',
 '25 July 2017',
 '21 July 2022',
 'Working']
```

In [46]:
```python
print(len(names),len(startdate),len(closingdate))
```

```
17 17 17
```

In [47]:
```python
import pandas as pd
df = pd.DataFrame({'Names':names,'Startdate':startdate,'Closingdate':closingda
df
```

Out[47]:

	Names	Startdate	Closingdate
0	\nName\n	\nStart Date\n	Closing date
1	Dr. Rajendra Prasad	26 January 1950	13 May 1962
2	Dr. Sarvepalli Radhakrishnan	13 May 1962	13 May 1967
3	Dr. Zakir Hussain	13 May 1967	3 May 1969
4	Varahagiri Venkata Giri	3 May 1969	20 July 1969
5	Varahagiri Venkata Giri	24 August 1969	24 August 1974
6	Fakhruddin Ali Ahmed	24 August 1974	11 February 1977
7	Neelam Sanjiva Reddy	25 July 1977	25 July 1982
8	Giani Zali Singh	25 July 1982	25 July 1987
9	Ramaswamy Venkataraman	25 July 1987	25 July 1992
10	Shankar Dayal Sharma	25 July 1992	25 July 1997
11	Kocheril Raman Narayanan	25 July 1997	25 July 2002
12	Dr. A.P.J. Abdul Kalam	25 July 2002	25 July 2007
13	Pratibha Patil	25 July 2007	25 July 2012
14	Pranab Mukherjee	25 July 2012	25 July 2017
15	Shri Ram Nath Kovind	25 July 2017	21 July 2022
16	Draupadi Murmu	21 July 2022	Working

In [48]:
```python
#Q.4 scrape mentioned details from dineout.co.in
```

In [49]:
```python
page = requests.get(' https://www.dineout.co.in/delhi-restaurants/buffet-speci
page
```

Out[49]: `<Response [200]>`

In [50]:
```python
soup = BeautifulSoup(page.content)
soup
```

Out[50]:
```
<!DOCTYPE html>
<html lang="en"><head><meta charset="utf-8"/><meta content="IE=edge" http-
equiv="X-UA-Compatible"/><meta content="width=device-width, initial-scale=
1.0, maximum-scale=1.0, user-scalable=no" name="viewport"/><link href="/ma
nifest.json" rel="manifest"/><style type="text/css">
            @font-face {
                font-family: 'dineicon';
                src:  url('/fonts/dineicon.eot');
                src:  url('/fonts/dineicon.eot#iefix') format('embedded-op
entype'),
                url('/fonts/dineicon.ttf') format('truetype'),
                url('/fonts/dineicon.woff') format('woff'),
                url('/fonts/dineicon.svg#dineicon') format('svg');
                font-weight: normal;
                          font-style: normal;
                          font-display: swap;
            }
            .hide {
                display: none !important;
```

In [51]:
```python
names = soup.find('div',class_="restnt-info cursor")
names
```

Out[51]:
```
<div class="restnt-info cursor" data-gatype="RestaurantNameClick"><a analytic
s-action="RestaurantCardClick" analytics-label="86792_Castle Barbeque" class
="restnt-name ellipsis" data-w-onclick="sendAnalyticsCommon|w1-restarant" hre
f="/delhi/castle-barbeque-connaught-place-central-delhi-86792">Castle Barbequ
e</a><div class="restnt-loc ellipsis" data-w-onclick="stopClickPropagation|w1
-restarant"><a data-name="Connaught Place" data-type="LocalityClick" href="/d
elhi-restaurants/central-delhi/connaught-place">Connaught Place</a>, <a data-
name="Central Delhi" data-type="AreaClick" href="/delhi-restaurants/central-d
elhi">Central Delhi</a></div></div>
```

In [52]:
```python
names.text
```

Out[52]:
```
'Castle BarbequeConnaught Place, Central Delhi'
```

In [53]:
```python
loction = soup.find('div',class_="restnt-loc ellipsis")
loction
```

Out[53]:
```
<div class="restnt-loc ellipsis" data-w-onclick="stopClickPropagation|w1-rest
arant"><a data-name="Connaught Place" data-type="LocalityClick" href="/delhi-
restaurants/central-delhi/connaught-place">Connaught Place</a>, <a data-name
="Central Delhi" data-type="AreaClick" href="/delhi-restaurants/central-delh
i">Central Delhi</a></div>
```

In [54]:
```python
loction.text
```

Out[54]:
```
'Connaught Place, Central Delhi'
```

In [55]:
```python
price = soup.find('span',class_="double-line-ellipsis")
price
```

Out[55]: `₹ 2,000 for 2 (approx) | <a data-w-onclick="stopClickPropagation|w1-restarant" href="/delhi-r estaurants/chinese-cuisine">Chinese, <a data-w-onclick="stop ClickPropagation|w1-restarant" href="/delhi-restaurants/north-indian-cuisin e">North Indian`

In [56]:
```python
price.text
```

Out[56]: `'₹ 2,000 for 2 (approx) | Chinese, North Indian'`

In [57]:
```python
rating = soup.find('div',class_="restnt-rating rating-4")
rating
```

Out[57]: `<div class="restnt-rating rating-4">4</div>`

In [58]:
```python
rating.text
```

Out[58]: `'4'`

In [59]:
```python
names =[]
for i in soup.find_all('div',class_="restnt-info cursor"):
    names.append(i.text)
names
```

Out[59]:
```
['Castle BarbequeConnaught Place, Central Delhi',
 'Cafe KnoshThe Leela Ambience Convention Hotel,Shahdara, East Delhi',
 "Castle's BarbequePacific Mall,Tagore Garden, West Delhi",
 'India GrillHilton Garden Inn,Saket, South Delhi',
 'The Barbeque CompanyGardens Galleria,Sector 38A, Noida',
 'Delhi BarbequeTaurus Sarovar Portico,Mahipalpur, South Delhi',
 'The Monarch - Bar Be Que VillageIndirapuram Habitat Centre,Indirapuram, Gha
ziabad',
 'Indian Grill RoomSuncity Business Tower,Golf Course Road, Gurgaon',
 'The Barbeque TimesM2K Corporate Park,Sector 51, Gurgaon']
```

In [60]:
```python
location =[]
for i in soup.find_all('div',class_="restnt-loc ellipsis"):
    location.append(i.text)
location
```

Out[60]:
```
['Connaught Place, Central Delhi',
 'The Leela Ambience Convention Hotel,Shahdara, East Delhi',
 'Pacific Mall,Tagore Garden, West Delhi',
 'Hilton Garden Inn,Saket, South Delhi',
 'Gardens Galleria,Sector 38A, Noida',
 'Taurus Sarovar Portico,Mahipalpur, South Delhi',
 'Indirapuram Habitat Centre,Indirapuram, Ghaziabad',
 'Suncity Business Tower,Golf Course Road, Gurgaon',
 'M2K Corporate Park,Sector 51, Gurgaon']
```

In [61]:
```python
price = []
for i in soup.find_all('span',class_="double-line-ellipsis"):
    price.append(i.text.replace('₹',''))
price
```

Out[61]:
```
[' 2,000 for 2 (approx) | Chinese, North Indian',
 ' 3,000 for 2 (approx) | Italian, Continental',
 ' 2,000 for 2 (approx) | Chinese, North Indian',
 ' 2,400 for 2 (approx) | North Indian, Italian',
 ' 1,700 for 2 (approx) | North Indian, Chinese',
 ' 1,800 for 2 (approx) | North Indian',
 ' 1,900 for 2 (approx) | North Indian',
 ' 2,200 for 2 (approx) | North Indian, Mughlai',
 ' 1,500 for 2 (approx) | North Indian, Continental, Chinese, South Indian']
```

In [62]:
```python
rating = []
for i in soup.find_all('div',class_="restnt-rating rating-4"):
    rating.append(i.text)
rating
```

Out[62]:
```
['4', '4.3', '3.9', '3.9', '3.9', '3.7', '3.8', '4.3', '4.1']
```

In [63]:
```python
images = []
for i in soup.find_all('img',class_="no-img"):
    images.append(i['data-src'])
images
```

Out[63]:
```
['https://im1.dineout.co.in/images/uploads/restaurant/sharpen/8/k/b/p86792-16
062953735fbe1f4d3fb7e.jpg?tr=tr:n-medium',
 'https://im1.dineout.co.in/images/uploads/restaurant/sharpen/4/p/m/p406-1543
8184745c04ccea491bc.jpg?tr=tr:n-medium',
 'https://im1.dineout.co.in/images/uploads/restaurant/sharpen/3/j/o/p38113-15
959192065f1fcb666130c.jpg?tr=tr:n-medium',
 'https://im1.dineout.co.in/images/uploads/restaurant/sharpen/2/v/t/p2687-148
2477169585cce712b90f.jpg?tr=tr:n-medium',
 'https://im1.dineout.co.in/images/uploads/restaurant/sharpen/7/p/k/p79307-16
051787755fad1597f2bf9.jpg?tr=tr:n-medium',
 'https://im1.dineout.co.in/images/uploads/restaurant/sharpen/5/d/i/p52501-16
61855212630de5eceb6d2.jpg?tr=tr:n-medium',
 'https://im1.dineout.co.in/images/uploads/restaurant/sharpen/3/n/o/p34822-15
599107305cfa594a13c24.jpg?tr=tr:n-medium',
 'https://im1.dineout.co.in/images/uploads/restaurant/sharpen/5/y/f/p549-1650
00147262590640c0afc.jpg?tr=tr:n-medium',
 'https://im1.dineout.co.in/images/uploads/restaurant/sharpen/1/u/r/p106428-1
66073786162fcd945925a9.jpg?tr=tr:n-medium']
```

In [64]:
```python
print(len(names),len(location),len(price),len(rating),len(images))
```

```
9 9 9 9 9
```

In [65]:
```python
import pandas as pd
df = pd.DataFrame({'Names':names,'Location':location,'Price':price,'Rating':ra
df
```

Out[65]:

	Names	Location	Price	Rating	
0	Castle BarbequeConnaught Place, Central Delhi	Connaught Place, Central Delhi	2,000 for 2 (approx) | Chinese, North Indian	4	https://im1.dineout.co.in/images/uploads
1	Cafe KnoshThe Leela Ambience Convention Hotel,...	The Leela Ambience Convention Hotel,Shahdara, ...	3,000 for 2 (approx) | Italian, Continental	4.3	https://im1.dineout.co.in/images/uploads
2	Castle's BarbequePacific Mall,Tagore Garden, W...	Pacific Mall,Tagore Garden, West Delhi	2,000 for 2 (approx) | Chinese, North Indian	3.9	https://im1.dineout.co.in/images/uploads
3	India GrillHilton Garden Inn,Saket, South Delhi	Hilton Garden Inn,Saket, South Delhi	2,400 for 2 (approx) | North Indian, Italian	3.9	https://im1.dineout.co.in/images/uploads
4	The Barbeque CompanyGardens Galleria,Sector 38...	Gardens Galleria,Sector 38A, Noida	1,700 for 2 (approx) | North Indian, Chinese	3.9	https://im1.dineout.co.in/images/uploads
5	Delhi BarbequeTaurus Sarovar Portico,Mahipalpu...	Taurus Sarovar Portico,Mahipalpur, South Delhi	1,800 for 2 (approx) | North Indian	3.7	https://im1.dineout.co.in/images/uploads
6	The Monarch - Bar Be Que VillageIndirapuram Ha...	Indirapuram Habitat Centre,Indirapuram, Ghaziabad	1,900 for 2 (approx) | North Indian	3.8	https://im1.dineout.co.in/images/uploads
7	Indian Grill RoomSuncity Business Tower,Golf C...	Suncity Business Tower,Golf Course Road, Gurgaon	2,200 for 2 (approx) | North Indian, Mughlai	4.3	https://im1.dineout.co.in/images/uploads
8	The Barbeque TimesM2K Corporate Park,Sector 51...	M2K Corporate Park,Sector 51, Gurgaon	1,500 for 2 (approx) | North Indian, Continen...	4.1	https://im1.dineout.co.in/images/uploads

In [66]:
```python
#Q.5 mentioned news details from https://www.cnbc.com/world/?region=world
```

In [67]:
```python
page = requests.get('https://www.cnbc.com/world/?region=world')
page
```

Out[67]: <Response [200]>

In [68]:
```python
soup = BeautifulSoup(page.content)
soup
```

```
r:#fff}@media (hover:hover){.AuthForms-container .AuthForms-accountButton
[class*=touchButton]:hover,.AuthForms-container .AuthForms-submitButton[cl
ass*=touchButton]:hover{background-color:#002f6c;border-color:#002f6c;colo
r:#fff}}@media (min-width:760px){.AuthForms-container .AuthForms-accountBu
tton,.AuthForms-container .AuthForms-submitButton{padding:0 30px;width:aut
o}}.AuthForms-container .AuthForms-accountButton:last-child,.AuthForms-con
tainer .AuthForms-submitButton:last-child{clear:both;margin-bottom:7px}.Au
thForms-container .AuthForms-accountButton.AuthForms-disableButton,.AuthFo
rms-container .AuthForms-submitButton.AuthForms-disableButton{background-c
olor:#d9d9d9;border:#d9d9d9;transition:none}.AuthForms-container .AuthForm
s-accountButton.AuthForms-disableButton:hover,.AuthForms-container .AuthFo
rms-submitButton.AuthForms-disableButton:hover{background-color:#d9d9d9;bo
rder:#d9d9d9}@media (min-width:760px){.AuthForms-container .AuthForms-acco
untButton.AuthForms-signInSubmitButton,.AuthForms-container .AuthForms-sub
mitButton.AuthForms-signInSubmitButton{width:109px!important}}.AuthForms-c
ontainer.AuthForms-disableButton{background-color:#d9d9d9;border:none}.Aut
hForms-container.AuthForms-disableButton:hover{background-color:#d9d9d9}.A
uthForms-container .AuthForms-accountButton{border-radius:3px;cursor:point
er;height:40px!important;margin:0 auto;padding:0!important}@media (min-wid
th:760px){.AuthForms-container .AuthForms-accountButton{width:200px!import
```

In [69]:
```python
headline = soup.find('div',class_="LatestNews-headlineWrapper")
headline
```

Out[69]: `<div class="LatestNews-headlineWrapper"><time class="LatestNews-timestamp">1 Hour Ago</time>These are the 11 sectors of the S&P 500 — and the stocks we own in each</div>`

In [70]:
```python
headline.text
```

Out[70]: '1 Hour AgoThese are the 11 sectors of the S&P 500 — and the stocks we own in each'

In [71]:
```python
time = soup.find('span',class_="LatestNews-wrapper")
time
```

Out[71]: `<span class="LatestNews-wrapper"><time class="LatestNews-timestamp">1 Hour Ago</time></span>`

In [72]:
```python
time.text
```

Out[72]:
```
'1 Hour Ago'
```

In [73]:
```python
newslink = soup.find('div',class_="LatestNews-container")
newslink
```

Out[73]:
```
<div class="LatestNews-container"><div class="LatestNews-headlineWrapper"><span class="LatestNews-wrapper"><time class="LatestNews-timestamp">1 Hour Ago</time></span><a class="InvestingClubPill-investingClubPillLink" data-type="investing-club-button" href="/investingclub/"><img alt="CNBC Investing Club" class="InvestingClubPill-investingClubPill InvestingClubPill-latestNews" src="https://static-redesign.cnbcfm.com/dist/f9ace92fca661c9f3bdf.svg"/></a><a class="LatestNews-headline" href="https://www.cnbc.com/2023/09/17/the-11-sectors-that-comprise-the-sp-500-and-the-club-stocks-in-each.html" title="These are the 11 sectors of the S&amp;P 500 — and the stocks we own in each">These are the 11 sectors of the S&amp;P 500 — and the stocks we own in each</a></div></div>
```

In [74]:
```python
headline = []
for i in soup.find_all('div',class_="LatestNews-headlineWrapper"):
    headline.append(i.text)
headline
```

```
Out[74]: ['1 Hour AgoThese are the 11 sectors of the S&P 500 — and the stocks we own i
         n each',
          '2 Hours AgoNo. 1 tip for starting a side hustle, from 2 moms who make thous
         ands',
          '2 Hours AgoThese are the top 10 states for young workers, says new report',
          '3 Hours AgoWhy health insurance is poised to make inflation jump',
          '3 Hours AgoHollywood pays a steep price for never really figuring out the s
         treaming model',
          "3 Hours AgoDisney asset sales won't break the bank, but they will move lega
         cy media forward",
          '3 Hours AgoIt's been one year since the Ethereum merge. Here's how the netw
         ork is doing.',
          "4 Hours AgoBehind Warren Buffett's $100 billion-plus bet on Apple and the i
         Phone",
          '4 Hours AgoOne individual investor favorite has endured even as other meme
         stocks waned ',
          '21 Hours AgoStellantis offers raises, inflation protection to UAW as strike
         s continue',
          '21 Hours AgoStrong retail sales despite stubborn inflation bodes well for t
         wo consumer stocks',
          "September 16, 20234 things the world's longest-living people do to stay hea
         lthy, happy",
          "September 16, 2023How Olipop's founders started a soda brand bringing in $2
         0 million/month",
          "September 16, 2023Here are three things we're watching in the markets in th
         e week ahead",
          'September 16, 2023U.S. states where property taxes are highest—New Jersey i
         s No. 1',
          'September 16, 2023The No. 1 thing successful parents who raise the stronges
         t and most resilient kids do differently',
          "September 16, 2023Mark Cuban: If someone says they can make you rich, 'the
         y're lying'",
          'September 16, 2023Top investor Jenny Harrington breaks down her best trade
         ever',
          'September 16, 20233 financial tips for couples moving in together for the f
         irst time',
          'September 16, 2023Analysts said obesity drugs would be blockbusters — Now f
         orecasts are rising',
          "September 16, 2023Analysts see stocks like Microsoft offering 'double digit
         growth' thanks to AI",
          'September 16, 2023Stocks churn with the S&P 500 sitting at the same level i
         t was two years ago',
          'September 16, 2023We gave the $2.1 million Rimac Nevera electric hypercar a
         spin. Check it out',
          "September 15, 2023Trump lashes out at Jack Smith's bid for partial gag orde
         r in D.C. election case",
          "September 15, 2023Cramer's Lightning Round: Sell Joby Aviation",
          "September 15, 2023Cramer's week ahead: Pay attention to the Federal Reserv
         e's meeting",
          "September 15, 2023Okta CEO on MGM breach: Companies are under 'massive atta
         ck from cybercriminals'",
          'September 15, 2023Jack Smith wants Trump barred from posting on witnesses o
         r evidence in D.C. case',
          'September 15, 2023Adobe falls after posting quarterly results. How to play
         the stock',
```

```
      'September 15, 2023Bernie Sanders calls out automaker CEOs at UAW rally: 'En
      d your greed'']
```

In [75]:
```python
time = []
for i in soup.find_all('span',class_="LatestNews-wrapper"):
    time.append(i.text)
time
```

Out[75]:
```
['1 Hour Ago',
 '2 Hours Ago',
 '2 Hours Ago',
 '3 Hours Ago',
 '3 Hours Ago',
 '3 Hours Ago',
 '3 Hours Ago',
 '4 Hours Ago',
 '4 Hours Ago',
 '21 Hours Ago',
 '21 Hours Ago',
 'September 16, 2023',
 'September 16, 2023',
 'September 16, 2023',
 'September 16, 2023',
 'September 16, 2023',
 'September 16, 2023',
 'September 16, 2023',
 'September 16, 2023',
 'September 16, 2023',
 'September 16, 2023',
 'September 16, 2023',
 'September 15, 2023',
 'September 15, 2023',
 'September 15, 2023',
 'September 15, 2023',
 'September 15, 2023',
 'September 15, 2023',
 'September 15, 2023']
```

In [76]:
```python
newsLink = []
for i in soup.find_all("div",class_="LatestNews-container"):

    newsLink.append(i.find("a",class_="LatestNews-headline").get("href"))
newsLink
```

Out[76]:   ['https://www.cnbc.com/2023/09/17/the-11-sectors-that-comprise-the-sp-500-and
            -the-club-stocks-in-each.html',
             'https://www.cnbc.com/2023/09/17/rachel-jimenez-number-one-piece-of-advice-f
            or-starting-an-etsy-store.html',
             'https://www.cnbc.com/2023/09/17/these-are-the-top-10-states-for-young-worke
            rs-says-new-report.html',
             'https://www.cnbc.com/2023/09/17/why-health-insurance-is-poised-to-make-infl
            ation-jump.html',
             'https://www.cnbc.com/2023/09/17/hollywood-streaming-profits-struggles.htm
            l',
             'https://www.cnbc.com/2023/09/17/disney-asset-sales-will-move-media-industry
            -forward.html',
             'https://www.cnbc.com/2023/09/17/its-been-one-year-since-the-ethereum-merge-
            heres-how-the-network-is-doing-on-its-goals.html',
             'https://www.cnbc.com/2023/09/17/buffett-calls-iphone-a-singular-product-jus
            tifying-outsized-apple-bet-.html',
             'https://www.cnbc.com/2023/09/17/one-individual-investor-favorite-has-endure
            d-even-as-meme-stocks-waned.html',
             'https://www.cnbc.com/2023/09/16/stellantis-offers-raises-inflation-protecti
            on-to-uaw-as-strikes-continue.html',
             'https://www.cnbc.com/2023/09/16/strong-retail-sales-despite-stubborn-inflat
            ion-bodes-well-for-two-consumer-stocks.html',
             'https://www.cnbc.com/2023/09/16/4-things-the-worlds-longest-living-people-d
            o-to-stay-healthy-happy.html',
             'https://www.cnbc.com/2023/09/16/how-olipops-founders-turned-100k-investment
            -into-healthier-soda-brand.html',
             'https://www.cnbc.com/2023/09/16/here-are-three-things-were-watching-in-the-
            markets-in-the-week-ahead.html',
             'https://www.cnbc.com/2023/09/16/us-states-where-property-taxes-are-highestn
            ew-jersey-is-no-1.html',
             'https://www.cnbc.com/2023/09/16/the-no-1-parenting-style-that-can-destroy-y
            our-kids-self-esteem-and-confidence-harvard-experts.html',
             'https://www.cnbc.com/2023/09/16/mark-cuban-if-someone-says-they-can-make-yo
            u-rich-theyre-lying.html',
             'https://www.cnbc.com/2023/09/16/top-investor-jenny-harrington-breaks-down-h
            er-best-trade-ever.html',
             'https://www.cnbc.com/2023/09/16/3-financial-tips-for-couples-moving-in-toge
            ther-for-the-first-time.html',
             'https://www.cnbc.com/2023/09/16/analysts-raising-forecasts-for-blockbuster-
            obesity-drugs.html',
             'https://www.cnbc.com/2023/09/16/stocks-like-microsoft-see-double-digit-grow
            th-ahead-thanks-to-ai.html',
             'https://www.cnbc.com/2023/09/16/stocks-churn-with-the-sp-500-sitting-at-the
            -same-level-it-was-two-years-ago.html',
             'https://www.cnbc.com/2023/09/16/rimac-nevera-ev-review-powerful-easy-to-dri
            ve.html',
             'https://www.cnbc.com/2023/09/15/trump-lashes-out-at-jack-smiths-gag-order-b
            id-in-dc-election-case.html',
             'https://www.cnbc.com/2023/09/15/cramers-lightning-round-sell-joby-aviation.
            html',
             'https://www.cnbc.com/2023/09/15/cramers-week-ahead-pay-attention-to-the-fed
            eral-reserves-meeting.html',
             'https://www.cnbc.com/2023/09/15/okta-ceo-on-mgm-breach-companies-under-atta
            ck-from-cybercriminals.html',
             'https://www.cnbc.com/2023/09/15/special-counsel-requests-trump-be-banned-fr
            om-talking-about-witnesses-or-evidence-in-jan-6-federal-case.html',
             'https://www.cnbc.com/2023/09/15/adobe-falls-after-posting-quarterly-results

```
            -how-to-play-the-stock.html',
             'https://www.cnbc.com/2023/09/15/sanders-to-address-uaw-strike-rally-in-detr
            oit-after-bashing-carmakers.html']
```

In [77]:
```python
print(len(headline),len(time),len(newslink))
```

```
30 30 1
```

In [78]:
```python
import pandas as pd
df = pd.DataFrame({'Headline':headline,'Time':time})
df
```

Out[78]:

	Headline	Time
0	1 Hour AgoThese are the 11 sectors of the S&P ...	1 Hour Ago
1	2 Hours AgoNo. 1 tip for starting a side hustl...	2 Hours Ago
2	2 Hours AgoThese are the top 10 states for you...	2 Hours Ago
3	3 Hours AgoWhy health insurance is poised to m...	3 Hours Ago
4	3 Hours AgoHollywood pays a steep price for ne...	3 Hours Ago
5	3 Hours AgoDisney asset sales won't break the ...	3 Hours Ago
6	3 Hours AgoIt's been one year since the Ethere...	3 Hours Ago
7	4 Hours AgoBehind Warren Buffett's $100 billio...	4 Hours Ago
8	4 Hours AgoOne individual investor favorite ha...	4 Hours Ago
9	21 Hours AgoStellantis offers raises, inflatio...	21 Hours Ago
10	21 Hours AgoStrong retail sales despite stubbo...	21 Hours Ago
11	September 16, 20234 things the world's longest...	September 16, 2023
12	September 16, 2023How Olipop's founders starte...	September 16, 2023
13	September 16, 2023Here are three things we're ...	September 16, 2023
14	September 16, 2023U.S. states where property t...	September 16, 2023
15	September 16, 2023The No. 1 thing successful p...	September 16, 2023
16	September 16, 2023Mark Cuban: If someone says ...	September 16, 2023
17	September 16, 2023Top investor Jenny Harringto...	September 16, 2023
18	September 16, 20233 financial tips for couples...	September 16, 2023
19	September 16, 2023Analysts said obesity drugs ...	September 16, 2023
20	September 16, 2023Analysts see stocks like Mic...	September 16, 2023
21	September 16, 2023Stocks churn with the S&P 50...	September 16, 2023
22	September 16, 2023We gave the $2.1 million Rim...	September 16, 2023
23	September 15, 2023Trump lashes out at Jack Smi...	September 15, 2023
24	September 15, 2023Cramer's Lightning Round: Se...	September 15, 2023
25	September 15, 2023Cramer's week ahead: Pay att...	September 15, 2023
26	September 15, 2023Okta CEO on MGM breach: Comp...	September 15, 2023
27	September 15, 2023Jack Smith wants Trump barre...	September 15, 2023
28	September 15, 2023Adobe falls after posting qu...	September 15, 2023
29	September 15, 2023Bernie Sanders calls out aut...	September 15, 2023

In [79]: *#Q.6o scrape cricket rankings from icc-cricket.com*

In [86]:
```
page = requests.get('https://www.icc-cricket.com/rankings/mens/team-rankings/o
page
```

Out[86]: <Response [200]>

In [87]:
```
soup = BeautifulSoup(page.content)
soup
```

Out[87]:
```
<!DOCTYPE html>
<html lang="en">
<head>
<meta content="ICC Men's ODI Team Rankings | ICC" name="twitter:title"/>
<meta content="website" property="og:type"/>
<meta content="summary_large_image" property="twitter:card"/>
<meta content="Official International Cricket Council ranking for One Day
International (ODI) cricket teams. Discover latest ICC rankings table, pre
dict upcoming matches, see points and ratings for all teams." name="descri
ption"/>
<meta content="@icc" property="twitter:site"/>
<meta content="Official International Cricket Council ranking for One Day
International (ODI) cricket teams. Discover latest ICC rankings table, pre
dict upcoming matches, see points and ratings for all teams." name="twitte
r:description"/>
<meta content="https://www.icc-cricket.com/resources/ver/i/elements/defaul
t-thumbnail.jpg" name="twitter:image"/>
<meta content="ICC Men's ODI Team Rankings | ICC" property="og:title"/>
<meta content="https://www.icc-cricket.com/resources/ver/i/elements/defaul
```

In [89]:
```
teams =soup.find('span',class_="u-hide-phablet")
teams
```

Out[89]: Pakistan

In [90]: teams.text

Out[90]: 'Pakistan'

In [91]:
```python
teams = []
for i in soup.find_all('span',class_="u-hide-phablet"):
    teams.append(i.text)
teams
```

Out[91]:
```
['Pakistan',
 'India',
 'Australia',
 'South Africa',
 'England',
 'New Zealand',
 'Bangladesh',
 'Sri Lanka',
 'Afghanistan',
 'West Indies',
 'Zimbabwe',
 'Scotland',
 'Ireland',
 'Netherlands',
 'Nepal',
 'Namibia',
 'United States',
 'Oman',
 'UAE']
```

In [92]:
```python
matches = soup.find('td',class_="rankings-block__banner--matches")
matches
```

Out[92]:
```
<td class="rankings-block__banner--matches">27</td>
```

In [93]:
```python
matches.text
```

Out[93]:
```
'27'
```

In [95]:
```python
matches = []
for i in soup.find_all('td',class_="rankings-block__banner--matches"):
    matches.append(i.text)
matches
```

Out[95]:
```
['27']
```

In [ ]: