

```
In [110]: import selenium
          from selenium import webdriver
          from selenium.webdriver.common.by import By
          from selenium.common.exceptions import NoSuchElementException
```

```
In [111]: import pandas as pd
          import time
```

```
In [3]: import warnings
        warnings.filterwarnings ('ignore')
```

```
In [4]: driver = webdriver.Chrome (r'chromedriver.exe')
```

```
In [ ]: # =====
```

```
In [5]: # Q-6
```

```
In [11]: driver.get ('https://www.theguardian.com/news/datablog/2012/aug/09/best-selling-books-all-time-fifty-shades-grey-compare')
```

```
In [7]: driver.maximize_window()
```

```
In [15]: title_all = []
```

```
In [73]: try:
        title = driver.find_elements(By.XPATH, '//table[@class="in-article sortable"]/tbody/tr/td[2]')
        for i in title:
            temp = i.text
            title_all.append(temp)
    except NoSuchElementException:
        title_all.append('-')

title_all
```

```

Out[73]: ['Da Vinci Code,The',
          'Harry Potter and the Deathly Hallows',
          'Harry Potter and the Philosopher's Stone',
          'Harry Potter and the Order of the Phoenix',
          'Fifty Shades of Grey',
          'Harry Potter and the Goblet of Fire',
          'Harry Potter and the Chamber of Secrets',
          'Harry Potter and the Prisoner of Azkaban',
          'Angels and Demons',
          'Harry Potter and the Half-blood Prince:Children's Edition',
          'Fifty Shades Darker',
          'Twilight',
          'Girl with the Dragon Tattoo,The:Millennium Trilogy',
          'Fifty Shades Freed',
          'Lost Symbol,The',
          'New Moon',
          'Deception Point',
          'Eclipse',
          'Lovely Bones,The',
          'Curious Incident of the Dog in the Night-time,The',
          'Digital Fortress',
          'Short History of Nearly Everything,A',
          'Girl Who Played with Fire,The:Millennium Trilogy',
          'Breaking Dawn',
          'Very Hungry Caterpillar,The:The Very Hungry Caterpillar',
          'Gruffalo,The',
          'Jamie's 30-Minute Meals',
          'Kite Runner,The',
          'One Day',
          'Thousand Splendid Suns,A',
          'Girl Who Kicked the Hornets' Nest,The:Millennium Trilogy',
          'Time Traveler's Wife,The',
          'Atonement',
          'Bridget Jones's Diary:A Novel',
          'World According to Clarkson,The',
          'Captain Corelli's Mandolin',
          'Sound of Laughter,The',
          'Life of Pi',
          'Billy Connolly',
          'Child Called It,A',
          'Gruffalo's Child,The',
          'Angela's Ashes:A Memoir of a Childhood',
          'Birdsong',
          'Northern Lights:His Dark Materials S.',
          'Labyrinth',
          'Harry Potter and the Half-blood Prince',
          'Help,The',
          'Man and Boy',
          'Memoirs of a Geisha',
          'No.1 Ladies' Detective Agency,The:No.1 Ladies' Detective Agency S.",
          'Island,The',
          'PS, I Love You',
          'You are What You Eat:The Plan That Will Change Your Life',
          'Shadow of the Wind,The',
          'Tales of Beedle the Bard,The',
          'Broker,The',
          'Dr. Atkins' New Diet Revolution:The No-hunger, Luxurious Weight Loss P",
          'Subtle Knife,The:His Dark Materials S.',
          'Eats, Shoots and Leaves:The Zero Tolerance Approach to Punctuation',
          'Delia's How to Cook:(Bk.1)",
          'Chocolat',
          'Boy in the Striped Pyjamas,The',
          'My Sister's Keeper',
          'Amber Spyglass,The:His Dark Materials S.',
          'To Kill a Mockingbird',
          'Men are from Mars, Women are from Venus:A Practical Guide for Improvin',
          'Dear Fatty',
          'Short History of Tractors in Ukrainian,A',
          'Hannibal',
          'Lord of the Rings,The',
          'Stupid White Men:...and Other Sorry Excuses for the State of the Natio',
          'Interpretation of Murder,The',
          'Sharon Osbourne Extreme:My Autobiography',
          'Alchemist,The:A Fable About Following Your Dream',
          'At My Mother's Knee ...:and Other Low Joints",
          'Notes from a Small Island',
          'Return of the Naked Chef,The',
          'Bridget Jones: The Edge of Reason',
          'Jamie's Italy',
          'I Can Make You Thin',
          'Down Under',
          'Summons,The',
          'Small Island',
          'Nigella Express',
          'Brick Lane',

```

```
"Memory Keeper's Daughter,The",
'Room on the Broom',
'About a Boy',
'My Booky Wook',
'God Delusion,The',
'"Beano" Annual,The',
'White Teeth',
'House at Riverton,The',
'Book Thief,The',
'Nights of Rain and Stars',
'Ghost,The',
'Happy Days with the Naked Chef',
'Hunger Games,The:Hunger Games Trilogy',
'Lost Boy,The:A Foster Child's Search for the Love of a Family",
"Jamie's Ministry of Food:Anyone Can Learn to Cook in 24 Hours"]
```

```
In [19]: len(title_all)
```

```
Out[19]: 100
```

```
In [20]: author_all = []
volume_sold = []
publisher_all = []
genre_all = []
```

```
In [22]: try:
    author = driver.find_elements(By.XPATH, '///table[@class="in-article sortable"]/tbody/tr/td[3]')
    for i in author:
        temp = i.text
        author_all.append(temp)
except NoSuchElementException:
    author_all.append('-')

try:
    volume = driver.find_elements(By.XPATH, '///table[@class="in-article sortable"]/tbody/tr/td[4]')
    for i in volume:
        temp = i.text
        volume_sold.append(temp)
except NoSuchElementException:
    volume_sold.append('-')

try:
    publisher = driver.find_elements(By.XPATH, '///table[@class="in-article sortable"]/tbody/tr/td[5]')
    for i in publisher:
        temp = i.text
        publisher_all.append(temp)
except NoSuchElementException:
    publisher_all.append('-')

try:
    genre = driver.find_elements(By.XPATH, '///table[@class="in-article sortable"]/tbody/tr/td[6]')
    for i in genre:
        temp = i.text
        genre_all.append(temp)
except NoSuchElementException:
    genre_all.append('-')
```

```
In [24]: len(title_all),len(author_all),len(volume_sold),len(publisher_all),len(genre_all)
```

```
Out[24]: (100, 200, 200, 200, 100)
```

```
In [37]: a1 = author_all [:100]
```

```
In [38]: v1 = volume_sold [:100]
```

```
In [39]: p1 = publisher_all [:100]
```

```
In [40]: len(title_all),len(a1),len(v1),len(p1),len(genre_all)
```

```
Out[40]: (100, 100, 100, 100, 100)
```

```
In [41]: df = pd.DataFrame({'Book Nmae':title_all,'Author Name':a1,'Volume Sold':v1,'Pulblisher':p1,'Genre':genre_all})
df
```

```
Out[41]:
```

	Book Nmae	Author Name	Volume Sold	Pulblisher	Genre
0	Da Vinci Code,The	Brown, Dan	5,094,805	Transworld	Crime, Thriller & Adventure
1	Harry Potter and the Deathly Hallows	Rowling, J.K.	4,475,152	Bloomsbury	Children's Fiction
2	Harry Potter and the Philosopher's Stone	Rowling, J.K.	4,200,654	Bloomsbury	Children's Fiction
3	Harry Potter and the Order of the Phoenix	Rowling, J.K.	4,179,479	Bloomsbury	Children's Fiction
4	Fifty Shades of Grey	James, E. L.	3,758,936	Random House	Romance & Sagas
...
95	Ghost,The	Harris, Robert	807,311	Random House	General & Literary Fiction
96	Happy Days with the Naked Chef	Oliver, Jamie	794,201	Penguin	Food & Drink: General
97	Hunger Games,The:Hunger Games Trilogy	Collins, Suzanne	792,187	Scholastic Ltd.	Young Adult Fiction
98	Lost Boy,The:A Foster Child's Search for the L...	Pelzer, Dave	791,507	Orion	Biography: General
99	Jamie's Ministry of Food:Anyone Can Learn to C...	Oliver, Jamie	791,095	Penguin	Food & Drink: General

100 rows × 5 columns

```
In [ ]: # ===== Q-6 completed =====
```

```
In [42]: # Q-7
```

```
In [43]: driver.get('https://www.imdb.com/list/ls095964455/')
```

```
In [44]: sample = driver.find_element(By.XPATH,'//h3[@class="lister-item-header"]/a')
sample.text
```

```
Out[44]: 'Game of Thrones'
```

```
In [45]: sample1 = driver.find_element(By.XPATH,'//h3[@class="lister-item-header"]/span[2]')
sample1.text
```

```
Out[45]: '(2011-2019)'
```

```
In [46]: sample2 = driver.find_element(By.XPATH,'//p[@class="text-muted text-small"]/span[5]')
sample2.text
```

```
Out[46]: 'Action, Adventure, Drama'
```

```
In [47]: sample3 = driver.find_element(By.XPATH,'//p[@class="text-muted text-small"]/span[3]')
sample3.text
```

```
Out[47]: '57 min'
```

```
In [48]: sample4 = driver.find_element(By.XPATH,'//div[@class="ipl-rating-widget"]/div[1]/span[2]')
sample4.text
```

```
Out[48]: '9.2'
```

```
In [49]: sample5 = driver.find_element(By.XPATH,'//p[@class="text-muted text-small"][3]/span[2]')
sample5.text
```

```
Out[49]: '2,174,645'
```

```
In [50]: name_all = []
year_all = []
genre_all = []
runtime_all = []
rating_all = []
votes_all = []
```

```
In [51]: try:
title = driver.find_elements(By.XPATH, '//h3[@class="lister-item-header"]/a')
for i in title:
    temp = i.text
    name_all.append(temp)
except NoSuchElementException:
    name_all.append('-')

try:
year = driver.find_elements(By.XPATH, '//h3[@class="lister-item-header"]/span[2]')
for i in year:
    temp = i.text
    year_all.append(temp)
except NoSuchElementException:
    year_all.append('-')

try:
genre = driver.find_elements(By.XPATH, '//p[@class="text-muted text-small"]/span[5]')
for i in genre:
    temp = i.text
    genre_all.append(temp)
except NoSuchElementException:
    genre_all.append('-')

try:
runtime = driver.find_elements(By.XPATH, '//p[@class="text-muted text-small"]/span[3]')
for i in runtime:
    temp = i.text
    runtime_all.append(temp)
except NoSuchElementException:
    runtime_all.append('-')

try:
rating = driver.find_elements(By.XPATH, '//div[@class="ipl-rating-widget"]/div[1]/span[2]')
for i in rating:
    temp = i.text
    rating_all.append(temp)
except NoSuchElementException:
    rating_all.append('-')

try:
votes = driver.find_elements(By.XPATH, '//p[@class="text-muted text-small"][3]/span[2]')
for i in votes:
    temp = i.text
    votes_all.append(temp)
except NoSuchElementException:
    votes_all.append('-')
```

```
In [52]: df = pd.DataFrame({'Name of Series':name_all, 'Year Span':year_all, 'Genre':genre_all, 'Runtime':runtime_all, 'Ratings':rating_all,
df
```

```
Out[52]:
```

	Name of Series	Year Span	Genre	Runtime	Ratings	Votes
0	Game of Thrones	(2011–2019)	Action, Adventure, Drama	57 min	9.2	2,174,645
1	Stranger Things	(2016–2024)	Drama, Fantasy, Horror	51 min	8.7	1,252,369
2	The Walking Dead	(2010–2022)	Drama, Horror, Thriller	44 min	8.1	1,032,911
3	13 Reasons Why	(2017–2020)	Drama, Mystery, Thriller	60 min	7.5	303,707
4	The 100	(2014–2020)	Drama, Mystery, Sci-Fi	43 min	7.6	262,849
...
95	Reign	(2013–2017)	Drama	42 min	7.4	51,984
96	A Series of Unfortunate Events	(2017–2019)	Adventure, Comedy, Drama	50 min	7.8	64,015
97	Criminal Minds	(2005–)	Crime, Drama, Mystery	42 min	8.1	208,616
98	Scream: The TV Series	(2015–2019)	Comedy, Crime, Drama	45 min	7	43,411
99	The Haunting of Hill House	(2018)	Drama, Horror, Mystery	572 min	8.6	260,407

100 rows × 6 columns

```
In [ ]: # ===== Q-7 completed =====
```

```
In [53]: # Q-8
```

```
In [54]: driver.get('https://archive.ics.uci.edu/')
```

```
In [55]: view_dataset = driver.find_element(By.XPATH, '/html/body/div/div[1]/div[1]/main/div/div[1]/div/div/div/a[1]')
view_dataset.click()
```

```
In [56]: sample_url = []
```

```
In [59]: try:
        urls = driver.find_elements(By.XPATH, '//h2[@class="truncate text-primary"]/a')
        for i in urls:
            temp = i.get_attribute('href')
            sample_url.append(temp)
    except NoSuchElementException:
        sample_url.append('not found')
```

```
In [60]: sample_url
```

```
Out[60]: ['https://archive.ics.uci.edu/dataset/53/iris',
'https://archive.ics.uci.edu/dataset/45/heart+disease',
'https://archive.ics.uci.edu/dataset/2/adult',
'https://archive.ics.uci.edu/dataset/602/dry+bean+dataset',
'https://archive.ics.uci.edu/dataset/34/diabetes',
'https://archive.ics.uci.edu/dataset/545/rice+cammeo+and+osmancik',
'https://archive.ics.uci.edu/dataset/109/wine',
'https://archive.ics.uci.edu/dataset/19/car+evaluation',
'https://archive.ics.uci.edu/dataset/17/breast+cancer+wisconsin+diagnostic',
'https://archive.ics.uci.edu/dataset/73/mushroom']
```

```
In [61]: iris = driver.find_element(By.XPATH, '//h2[@class="truncate text-primary"]/a')
iris.click()
```

```
In [62]: name_all = []
type_all = []
task_all = []
attributetype_all = []
instances_all = []
attributenum_all = []
year_all = []
```

```
In [63]: sample6 = driver.find_element(By.XPATH, '//div[@class="flex items-center gap-4"][1]/h1')
sample6.text
```

```
Out[63]: 'Iris'
```

```
In [64]: sample7 = driver.find_element(By.XPATH, '//div[@class="col-span-4"][1]/p')
sample7.text
```

```
Out[64]: 'Multivariate'
```

```
In [65]: sample8 = driver.find_element(By.XPATH, '//div[@class="col-span-4"][3]/p')
sample8.text
```

```
Out[65]: 'Classification'
```

```
In [66]: sample9 = driver.find_element(By.XPATH, '//div[@class="col-span-4"][4]/p')
sample9.text
```

```
Out[66]: 'Real'
```

```
In [67]: sample10 = driver.find_element(By.XPATH, '//div[@class="col-span-4"][5]/p')
sample10.text
```

```
Out[67]: '150'
```

```
In [69]: sample11 = driver.find_element(By.XPATH, '//div[@class="col-span-4"][6]/p')
sample11.text
```

```
Out[69]: '4'
```

```
In [70]: sample12 = driver.find_element(By.XPATH, '//h2[@class="text-primary-content"]')
sample12.text
```

```
Out[70]: 'Donated on 6/30/1988'
```

```
In [ ]: name_all = []
type_all = []
task_all = []
attributetype_all = []
instances_all = []
attributenum_all = []
year_all = []
```

```
In [71]: from time import sleep
```

```
In [76]: for url in sample_url:
    driver.get(url)
    time.sleep(3)

    try:
        name = driver.find_elements(By.XPATH, '///div[@class="flex items-center gap-4"][1]/h1')
        for i in name:
            temp = i.text
            name_all.append(temp)
    except NoSuchElementException :
        name_all.append('-')

    try:
        type1 = driver.find_elements(By.XPATH, '///div[@class="col-span-4"][1]/p')
        for i in type1:
            temp = i.text
            type_all.append(temp)
    except NoSuchElementException :
        type_all.append('-')

    try:
        task = driver.find_elements(By.XPATH, '///div[@class="col-span-4"][3]/p')
        for i in task:
            temp = i.text
            task_all.append(temp)
    except NoSuchElementException :
        task_all.append('-')

    try:
        attribute = driver.find_elements(By.XPATH, '///div[@class="col-span-4"][4]/p')
        for i in attribute:
            temp = i.text
            attributetype_all.append(temp)
    except NoSuchElementException :
        attributetype_all.append('-')

    try:
        instances = driver.find_elements(By.XPATH, '///div[@class="col-span-4"][5]/p')
        for i in instances:
            temp = i.text
            instances_all.append(temp)
    except NoSuchElementException :
        instances_all.append('-')

    try:
        attrinum = driver.find_elements(By.XPATH, '///div[@class="col-span-4"][6]/p')
        for i in attrinum:
            temp = i.text
            attributenum_all.append(temp)
    except NoSuchElementException :
        attributenum_all.append('-')

    try:
        year = driver.find_elements(By.XPATH, '///h2[@class="text-primary-content"]')
        for i in year:
            temp = i.text
            year_all.append(temp)
    except NoSuchElementException :
        year_all.append('-')
```



```
In [78]: n1 = name_all[:10]
t1 = type_all[:10]
t2 = task_all[:10]
a1 = attributetype_all[:10]
i1 = instances_all[:10]
a2 = attributenum_all[:10]
y1 = year_all[:10]
```

```
In [79]: df = pd.DataFrame({'Dataset Name':n1,'Data Type':t1,'Task':t2,'Attribute Type':a1,'Number of Instances':i1,'Number of Attributes':a2,'Year':y1})
df
```

```
Out[79]:
```

	Dataset Name	Data Type	Task	Attribute Type	Number of Instances	Number of Attributes	Year
0	Iris	Multivariate	Classification	Real	150	4	Donated on 6/30/1988
1	Information	Multivariate	Classification	Categorical, Integer, Real	303	13	Donated on 6/30/1988
2	Introductory Paper	Multivariate	Classification	Categorical, Integer	48842	14	Donated on 4/30/1996
3	Attribute Information	Multivariate	Classification	Integer, Real	13611	17	Donated on 9/13/2020
4	Features	Multivariate, Time-Series	-	Categorical, Integer	-	20	Donated on 10/5/2019
5	Keywords	Multivariate	Classification	Real	3810	8	Donated on 6/30/1991
6	Heart Disease	Multivariate	Classification	Integer, Real	178	13	Donated on 5/31/1997
7	Information	Multivariate	Classification	Categorical	1728	6	Donated on 10/31/1995
8	Attribute Information	Multivariate	Classification	Real	569	30	Donated on 4/26/1987
9	Features	Multivariate	Classification	Categorical	8124	22	Donated on 6/30/1988

```
In [ ]: # ===== Q-8 completed =====
```

```
In [80]: # Q-9
```

```
In [5]: driver.get('https://www.naukri.com/hr-recruiters-consultants')
```

```
In [6]: driver.maximize_window()
```

```
In [7]: first = driver.find_element(By.XPATH, '/html/body/div[1]/div[4]/div/div/section[3]/div[2]/article[1]/div[1]/div[1]/a')
first.click()
```

```
In [8]: url_all = []
```

```
In [20]: url = driver.find_elements(By.XPATH, '//section[@class="jd-header"]/div[1]/div[1]/header/h1')
for i in url:
    temp = i.text
    url_all.append(temp)
url_all
```

```
Out[20]: []
```

```
In [25]: title_name = []
try:
    title = driver.find_elements(By.XPATH, '//div[@class="info fleft"][1]/a[1]')
    for i in title:
        temp = i.text
        title_name.append(temp)
except NoSuchElementException:
    title_name.append('-')
```

```
In [27]: len(title_name)
```

```
Out[27]: 20
```

```
In [28]: name_all = []
try:
    names = driver.find_elements(By.XPATH, '//div[@class="info fleft"][1]/div/a[1]')
    for i in names:
        temp = i.text
        name_all.append(temp)
except NoSuchElementException:
    name_all.append('-')
```

```
In [30]: len(name_all)
```

```
Out[30]: 20
```

```
In [31]: discription_all = []
try:
    discrip = driver.find_elements(By.XPATH, '//div[@class="ellipsis job-description"]')
    for i in discrip:
        temp = i.text
        discription_all.append(temp)
except NoSuchElementException:
    discription_all.append('-')
```

```
In [32]: len(discription_all)
```

```
Out[32]: 20
```

```
In [34]: location_all = []
try:
    location = driver.find_elements(By.XPATH, '//li[@class="fleft br2 placeholderLi location"]/span')
    for i in location:
        temp = i.text
        location_all.append(temp)
except NoSuchElementException:
    location_all.append('-')
```

```
In [35]: len(location_all)
```

```
Out[35]: 20
```

```
In [50]: designation_all = []
try:
    desig = driver.find_elements(By.XPATH, '//article[@class="jobTuple"]/ul/li[2]')
    for i in desig:
        temp = i.text
        designation_all.append(temp)
except NoSuchElementException:
    designation_all.append('-')
```

```
In [51]: len(designation_all)
```

```
Out[51]: 20
```

```
In [53]: df = pd.DataFrame({'Name':title_name,'Designation':designation_all,'Company':name_all,'Skills hire':discription_all,'Location':
df
```

Out[53]:

	Name	Designation	Company	Skills hire	Location
0	Recruitment Opportunity For HR Executive	hr generalist activities	Kone	Assist with all internal and external HR relat...	Chennai, Tamil Nadu
1	Human Resources Executive	Training	Marriott	Ensure accurate maintenance of all employee re...	Chennai
2	HR Recruiter _Bhubaneshwar (Btech Candidates ...	Hrsd	Tech Mahindra	Should have experience of various selection pr...	Bhubaneswar
3	Job opportunity For freshers/HR Recruiter/HR E...	Bulk Hiring	Black And White Business Solutions	LOOKING FOR - FRESHERS Experience : HR Recruit...	Bangalore/Bengaluru(Kodihalli +3)
4	HR Executive	Recruitment	Definedge Solutions	Proven work experience as an HR Executive . Ex...	Pune
5	HR Executive	Talent Management	Bonami Software	Qualifications . Must have excellent oral and ...	New Delhi, Delhi / NCR
6	Direct Walk in Interview For HR Executive(Female)	Joining formalities	m2 Vending	Direct walk in interview for HR Executive(Fema...	Gurgaon/ Gurugram, Haryana
7	HR Executive	HR	Reputed Group of Higher Education Insititions....	Roles and ResponsibilityPrimary responsibiliti...	Bangalore/Bengaluru(Bannerghatta +1)
8	Jr HR Executive	Attendance Maintenance	SPECTRAFORCE	Willingness to work night shifts As a certifie...	Hybrid - Mohali, Punjab
9	HR Executive	Background verification	Abhinav Futuristics	Recruitment and Staffing: Assisting with the e...	Mohali, Punjab
10	Executive/ Assistant Manager HR Generalist - P...	HR Information System	OASIS	Dress Code will be Blazer, Skirt and Bun for t...	Pune, Maharashtra(Koregaon Park)
11	Opening For Management Trainee / Executive - HR	Talent Acquisition	Sahajanand Medical Technologies	Following is the requirement : . Company - Sah...	Mumbai (All Areas)
12	Recruiter - HR	Social media	Fashion Tv India	1. Filling positions within the organization. ...	Mumbai
13	Assistant Manager - HR (Field Level Recruitment)	recruitment	Muthoot Microfin	. Post Graduation - MBA / PGDM in HR Full Time...	Bhubaneswar, Odisha, Hubli, Karnataka, Sambalp...
14	Hiring Freshers : HR Executive: Recruiter-Guru...	Recruitment	Advance Career Solutions	Currently Im hiring Enthusiastic Freshers for ...	Gurgaon/ Gurugram, Haryana
15	HR Trainee/Fresher(MBA)-Navi Mumbai(IMD joiner...	HR	3i Infotech	Urgent requirement for HR Trainee / Fresher(MB...	Navi Mumbai, Maharashtra
16	HR Trainee/Fresher(MBA)-Navi Mumbai(IMD joiner...	HR	3i Infotech	Urgent requirement for HR Trainee / Fresher(MB...	Navi Mumbai, Maharashtra
17	Hiring Hr recruiters, day shift, spot offer an...	Hrsd	Ignites Human Capital	Recruiter(Day shift) Jayanagar . HR Recruiter ...	Bangalore/ Bengaluru, Karnataka
18	Human Resource Recruiter @Jabalpur: Salary Upt...	Inside sales	KVC Consultants Ltd.	Greetings, If you are looking forward to a car...	Jabalpur
19	Human Resource Recruiter @Jabalpur: Salary Upt...	IT recruitment	KVC Consultants Ltd.	Greetings, If you are looking forward to a car...	Jabalpur

```
In [ ]: # ===== Q-9 completed =====
```

```
In [ ]: # Q-1
```

```
In [112]: from selenium .common.exceptions import NoSuchElementException
from time import sleep
```

```
In [91]: driver = webdriver.Chrome (r'chromedriver.exe')
```

```
In [92]: driver.get('https://en.wikipedia.org/wiki/List_of_most-viewed_Youtube_videos')
```

```
In [113]: rank_all = []
name_all = []
artist_all = []
upload_date = []
views_all = []
```

```
In [58]: driver.maximize_window()
```

```
In [124]: rank_allnew = []
```

```
In [125]: try:
rank_new1 = driver.find_elements(By.XPATH, '///table[@class="wikitable sortable jquery-tablesorter"]/tbody[1]/tr/td[1]')
for i in rank_new1:
    temp = i.text
    rank_allnew.append(temp)
except NoSuchElementException:
    rank_allnew.append('-')
```

```
In [128]: r = rank_allnew[:20]
len(r)
```

Out[128]: 20

```
In [97]: try:
rank_new = driver.find_elements(By.XPATH, '///table[@class="wikitable sortable jquery-tablesorter"]/tbody[1]/tr/td[2]/a')
for i in rank_new:
    temp = i.text
    name_all.append(temp)
except NoSuchElementException:
    name_all.append('-')
```

```
In [117]: n = name_all[:20]
len(n)
```

Out[117]: 20

```
In [100]: try:
artist= driver.find_elements(By.XPATH, '///table[@class="wikitable sortable jquery-tablesorter"]/tbody[1]/tr/td[3]/a')
for i in artist:
    temp = i.text
    artist_all.append(temp)
except NoSuchElementException:
    artist_all.append('-')
```

```
In [118]: a = artist_all[:20]
len(a)
```

Out[118]: 20

```
In [103]: try:
views = driver.find_elements(By.XPATH, '///table[@class="wikitable sortable jquery-tablesorter"]/tbody[1]/tr/td[4]')
for i in views:
    temp = i.text
    views_all.append(temp)
except NoSuchElementException:
    views_all.append('-')
```

```
In [119]: v = views_all[:20]
len(v)
```

Out[119]: 20

```
In [106]: try:
upload = driver.find_elements(By.XPATH, '///table[@class="wikitable sortable jquery-tablesorter"]/tbody[1]/tr/td[5]')
for i in upload:
    temp = i.text
    upload_date.append(temp)
except NoSuchElementException:
    upload_date.append('-')
```

```
In [122]: u = upload_date[:20]
len(u)
```

Out[122]: 20

```
In [129]: df = pd.DataFrame({'Rank':r, 'Name':n, 'Artist':a, 'Upload Date':u, 'Views':v})
df
```

Out[129]:

	Rank	Name	Artist	Upload Date	Views
0	1.	Baby Shark Dance	Pinkfong Baby Shark - Kids' Songs & Stories	June 17, 2016	12.85
1	2.	Despacito	Luis Fonsi	January 12, 2017	8.16
2	3.	Johny Johny Yes Papa	Cocomelon – Nursery Rhymes	October 8, 2016	6.70
3	4.	Shape of You	Ed Sheeran	May 2, 2018	6.20
4	5.	See You Again	Wiz Khalifa	January 30, 2017	6.00
5	6.	Wheels on the Bus	ChuChu TV	April 6, 2015	5.89
6	7.	Uptown Funk	Cocomelon – Nursery Rhymes	March 6, 2014	5.30
7	8.	Gangnam Style	Mark Ronson	May 24, 2018	5.24
8	9.	Dame Tu Cosita	Psy	November 19, 2014	4.92
9	10.	Axel F	El Chombo	February 27, 2018	4.89
10	11.	Sugar	Crazy Frog	July 15, 2012	4.80
11	12.	Roar	Maroon 5	January 31, 2012	4.55
12	13.	Counting Stars	Katy Perry	April 5, 2018	4.35
13	14.	Sorry	OneRepublic	June 16, 2009	3.91
14	15.	Baa Baa Black Sheep	Justin Bieber	January 14, 2015	3.87
15	16.	Thinking Out Loud	Cocomelon – Nursery Rhymes	September 5, 2013	3.80
16	17.	Waka Waka (This Time for Africa)	Ed Sheeran	May 31, 2013	3.79
17	18.	Dark Horse	Shakira	October 22, 2015	3.66
18	19.	Faded	Katy Perry	June 25, 2018	3.64
19	20.	Perfect	Alan Walker	October 7, 2014	3.60

```
In [ ]: # ===== ALL Questions Completed =====
```

```
In [ ]:
```

```
In [ ]:
```

```
In [ ]:
```