

Question NO 1 Answer

```
In [1]: !pip install selenium
import pandas as pd
import time
from selenium import webdriver
from selenium.common.exceptions import StaleElementReferenceException, NoSuchElementException
from selenium.webdriver.common.by import By
```

```
Requirement already satisfied: selenium in c:\users\chand\anaconda3\lib\site-packages (4.8.0)
Requirement already satisfied: trio-websocket~=0.9 in c:\users\chand\anaconda3\lib\site-packages (from selenium) (0.9.2)
Requirement already satisfied: certifi>=2021.10.8 in c:\users\chand\anaconda3\lib\site-packages (from selenium) (2021.10.8)
Requirement already satisfied: urllib3[socks]~=1.26 in c:\users\chand\anaconda3\lib\site-packages (from selenium) (1.26.9)
Requirement already satisfied: trio~=0.17 in c:\users\chand\anaconda3\lib\site-packages (from selenium) (0.22.0)
Requirement already satisfied: attrs>=19.2.0 in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (21.4.0)
Requirement already satisfied: idna in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (3.3)
Requirement already satisfied: exceptiongroup>=1.0.0rc9 in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.1.0)
Requirement already satisfied: sortedcontainers in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (2.4.0)
Requirement already satisfied: sniffio in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.2.0)
Requirement already satisfied: async-generator>=1.9 in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.10)
Requirement already satisfied: cffi>=1.14 in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.15.0)
Requirement already satisfied: outcome in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.2.0)
Requirement already satisfied: pycparser in c:\users\chand\anaconda3\lib\site-packages (from cffi>=1.14->trio~=0.17->selenium) (2.21)
Requirement already satisfied: wsproto>=0.14 in c:\users\chand\anaconda3\lib\site-packages (from trio-websocket~=0.9->selenium) (1.2.0)
Requirement already satisfied: PySocks!=1.5.7,<2.0,>=1.5.6 in c:\users\chand\anaconda3\lib\site-packages (from urllib3[socks]~=1.26->selenium) (1.7.1)
Requirement already satisfied: h11<1,>=0.9.0 in c:\users\chand\anaconda3\lib\site-packages (from wsproto>=0.14->trio-websocket~=0.9->selenium) (0.14.0)
```

```
In [2]: driver=webdriver.Chrome(r'Chromedriver.exe')
```

```
C:\Users\chand\AppData\Local\Temp\ipykernel_17096\413822959.py:1: DeprecationWarning: executable_path has been deprecated, please pass in a Service object
  driver=webdriver.Chrome(r'Chromedriver.exe')
```

```
In [3]: driver.get('https://en.wikipedia.org/wiki/List_of_most-viewed_Youtube_videos')
```

```
In [4]: Urls=[]

url=driver.find_elements(By.XPATH,'//a[@class="mw-redirect"]')
for i in url:
    Urls.append(i.get_attribute('href'))
```

```
In [5]: len(Urls)
```

```
Out[5]: 18
```

```
In [6]: Name=[]

name=driver.find_elements(By.XPATH,'//a[@class="mw-redirect"]')
for i in name[0:18]:
    Name.append(i.text)
len(Name)
```

```
Out[6]: 18
```

```
In [7]: Upload=[]

upload=driver.find_elements(By.XPATH,'//td[@align="right"]')
for i in upload[0:18]:
    Upload.append(i.text)
len(Upload)
```

```
Out[7]: 18
```

```
In [8]: Rank=[]

rank=driver.find_elements(By.XPATH,'//td[@align="center"]')
for i in rank[0:18]:
    Rank.append(i.text)
```

```
len(Rank)
```

```
Out[8]: 18
```

```
In [9]: print(len(Rank),len(Name),len(Upload))
```

```
18 18 18
```

```
In [10]: import pandas as pd
```

```
In [11]: hh=pd.DataFrame({"RANK":Rank,"NAME":Name,"UPLOAD DATE":Upload})
```

```
In [12]: hh
```

```
Out[12]:
```

	RANK	NAME	UPLOAD DATE
0	1.	music videos	June 17, 2016
1	12.37	regional restrictions	January 12, 2017
2	[A]	Baby Shark Dance	October 8, 2016
3	2.	Johny Johny Yes Papa	May 2, 2018
4	8.09	Cocomelon – Nursery Rhymes	January 30, 2017
5	[B]	Cocomelon – Nursery Rhymes	April 6, 2015
6	3.	Cocomelon – Nursery Rhymes	March 6, 2014
7	6.63	Alan Walker	May 24, 2018
8	[C]	Baby Shark Dance	November 19, 2014
9	4.	Baby Shark Dance	February 27, 2018
10	6.03	Johny Johny Yes Papa	July 15, 2012
11	[D]	Baby Shark Dance	January 31, 2012
12	5.	Wired	April 5, 2018
13	5.92	CNet	January 14, 2015
14	[E]	Criticism	June 16, 2009
15	6.	Censorship	September 5, 2013
16	5.79	KSI vs. Logan Paul	May 31, 2013
17	[F]	music videos	October 22, 2015

```
In [ ]:
```

Question NO 2 Answer

```
In [44]: !pip install selenium
import pandas as pd
import selenium
from selenium.common.exceptions import StaleElementReferenceException, NoSuchElementException
from selenium import webdriver
from selenium.webdriver.common.by import By
import time
```

```
In [54]: driver=webdriver.Chrome(r'Chromedriver.exe')

C:\Users\chand\AppData\Local\Temp\ipykernel_115916\413822959.py:1: DeprecationWarning: executable_path has been
deprecated, please pass in a Service object
  driver=webdriver.Chrome(r'Chromedriver.exe')

In [55]: driver.get('https://www.bcci.tv/')

In [56]: inter=driver.find_element(By.XPATH, '/html/body/nav/div[1]/div[2]/ul[1]/li[2]/a')
inter.click()

In [58]: all_format=driver.find_element(By.XPATH, '/html/body/div[2]/div[2]/div/div/div[2]/div[2]/div/div[3]/div/div[1]')
all_format.click()

In [59]: odi=driver.find_element(By.XPATH, '/html/body/div[2]/div[2]/div/div/div[2]/div[2]/div/div[3]/div/div[2]/div[1]')
odi.click()

In [73]: Matches=[]
Date=[]
Time=[]
Place=[]

matches=driver.find_elements(By.XPATH, '//span[@class="ng-binding"]')
for i in matches:
    Matches.append(i.text)

date=driver.find_elements(By.XPATH, '//h5[@class="ng-binding"]')
for i in date:
    Date.append(i.text)

time=driver.find_elements(By.XPATH, '//h5[@class="text-right ng-binding"]')
for i in time:
    Time.append(i.text)

place=driver.find_elements(By.XPATH, '//div[@class="fix-place ng-binding ng-scope"]')
for i in place:
    Place.append(i.text)

In [74]: print(len(Matches), len(Date), len(Time), len(Place))

3 3 3 3

In [75]: df=pd.DataFrame({"SERIES":Matches, "DATE":Date, "TIME":Time, "PLACE":Place})

In [76]: df
```

Out[76]:

	SERIES	DATE	TIME	PLACE
0	AUSTRALIA TOUR OF INDIA ODI SERIES 2022-23	17 MAR 2023	1:30 PM IST	1st ODI - Wankhede Stadium, Mumbai
1	AUSTRALIA TOUR OF INDIA ODI SERIES 2022-23	19 MAR 2023	1:30 PM IST	2nd ODI - Dr YS Rajasekhara Reddy ACA-VDCA Cri...
2	AUSTRALIA TOUR OF INDIA ODI SERIES 2022-23	22 MAR 2023	1:30 PM IST	3rd ODI - MA Chidambaram Stadium, Chennai

Question NO 3 Answer

```
In [1]: !pip install selenium
import selenium
import pandas as pd
from selenium import webdriver
from selenium.common.exceptions import StaleElementReferenceException, NoSuchElementException
from selenium.webdriver.common.by import By
import time
```

```
Requirement already satisfied: selenium in c:\users\chand\anaconda3\lib\site-packages (4.8.0)
Requirement already satisfied: urllib3[socks]>=1.26 in c:\users\chand\anaconda3\lib\site-packages (from selenium) (1.26.9)
Requirement already satisfied: trio>=0.17 in c:\users\chand\anaconda3\lib\site-packages (from selenium) (0.22.0)
Requirement already satisfied: certifi>=2021.10.8 in c:\users\chand\anaconda3\lib\site-packages (from selenium) (2021.10.8)
Requirement already satisfied: trio-websocket>=0.9 in c:\users\chand\anaconda3\lib\site-packages (from selenium) (0.9.2)
Requirement already satisfied: async-generator>=1.9 in c:\users\chand\anaconda3\lib\site-packages (from trio>=0.17->selenium) (1.10)
Requirement already satisfied: exceptiongroup>=1.0.0rc9 in c:\users\chand\anaconda3\lib\site-packages (from trio>=0.17->selenium) (1.1.0)
Requirement already satisfied: idna in c:\users\chand\anaconda3\lib\site-packages (from trio>=0.17->selenium) (3.3)
Requirement already satisfied: attrs>=19.2.0 in c:\users\chand\anaconda3\lib\site-packages (from trio>=0.17->selenium) (21.4.0)
Requirement already satisfied: sniffio in c:\users\chand\anaconda3\lib\site-packages (from trio>=0.17->selenium) (1.2.0)
Requirement already satisfied: outcome in c:\users\chand\anaconda3\lib\site-packages (from trio>=0.17->selenium) (1.2.0)
Requirement already satisfied: cffi>=1.14 in c:\users\chand\anaconda3\lib\site-packages (from trio>=0.17->selenium) (1.15.0)
Requirement already satisfied: sortedcontainers in c:\users\chand\anaconda3\lib\site-packages (from trio>=0.17->selenium) (2.4.0)
Requirement already satisfied: pycparser in c:\users\chand\anaconda3\lib\site-packages (from cffi>=1.14->trio>=0.17->selenium) (2.21)
Requirement already satisfied: wsproto>=0.14 in c:\users\chand\anaconda3\lib\site-packages (from trio-websocket>=0.9->selenium) (1.2.0)
Requirement already satisfied: PySocks!=1.5.7,<2.0,>=1.5.6 in c:\users\chand\anaconda3\lib\site-packages (from urllib3[socks]>=1.26->selenium) (1.7.1)
Requirement already satisfied: h11<1,>=0.9.0 in c:\users\chand\anaconda3\lib\site-packages (from wsproto>=0.14->trio-websocket>=0.9->selenium) (0.14.0)
```

```
In [2]: !pip install bs4
from bs4 import BeautifulSoup
!pip install requests
import requests
```

```
Requirement already satisfied: bs4 in c:\users\chand\anaconda3\lib\site-packages (0.0.1)
Requirement already satisfied: beautifulsoup4 in c:\users\chand\anaconda3\lib\site-packages (from bs4) (4.11.1)
Requirement already satisfied: soupsieve>1.2 in c:\users\chand\anaconda3\lib\site-packages (from beautifulsoup4->bs4) (2.3.1)
Requirement already satisfied: requests in c:\users\chand\anaconda3\lib\site-packages (2.27.1)
Requirement already satisfied: certifi>=2017.4.17 in c:\users\chand\anaconda3\lib\site-packages (from requests) (2021.10.8)
Requirement already satisfied: charset-normalizer==2.0.0 in c:\users\chand\anaconda3\lib\site-packages (from requests) (2.0.4)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\users\chand\anaconda3\lib\site-packages (from requests) (1.26.9)
Requirement already satisfied: idna<4,>=2.5 in c:\users\chand\anaconda3\lib\site-packages (from requests) (3.3)
```

```
In [3]: driver=webdriver.Chrome(r'Chromedriver.exe')
```

```
C:\Users\chand\AppData\Local\Temp\ipykernel_19316\413822959.py:1: DeprecationWarning: executable_path has been deprecated, please pass in a Service object
driver=webdriver.Chrome(r'Chromedriver.exe')
```

```
In [4]: driver.get('https://www.statisticstimes.com/')
```

```
In [5]: economy=driver.find_element(By.XPATH, '/html/body/div[2]/div[1]/div[2]/div[2]/button')
economy.click()
ind=driver.find_element(By.XPATH, '/html/body/div[2]/div[1]/div[2]/div[2]/div/a[3]')
ind.click()
```

```
In [8]: ind_state=driver.find_element(By.XPATH, '/html/body/div[2]/div[2]/div[2]/ul/li[1]/a')
ind_state.click()
```

```
In [34]: Rank=[]
State=[]
GSDP=[]
GSDP_=[]
Share=[]
GDP_bil=[]

try:
    rank=driver.find_elements(By.XPATH,'//td[@class="data1"]')
    for i in rank[0:33]:
        Rank.append(i.text)

    state=driver.find_elements(By.XPATH,'//td[@class="name"]')
    for i in state[0:33]:
        State.append(i.text)

    gsdp=driver.find_elements(By.CLASS_NAME,"data sorting_1")
    for i in gsdp[0:33]:
        GSDP.append(i.text)

    gsdp_=driver.find_elements(By.XPATH,'//td[@class="data"]')
    for i in gsdp_[0:33]:
        GSDP_.append(i.text)

    share=driver.find_elements(By.XPATH,'/html/body/div[3]/div[2]/div[5]/div[1]/div/table/tbody/tr[1]/td[6]')
    for i in share[0:33]:
        Share.append(i.text)

    gdp_bil=driver.find_elements(By.XPATH,'/html/body/div[3]/div[2]/div[5]/div[1]/div/table/tbody/tr[1]/td[6]')
    for i in gdp_bil[0:33]:
        GDP_bil.append(i.text)

except NoSuchElementException:
    Rank.append('-')
    State.append('-')
    GSDP.append('-')
    GSDP_.append('-')
    Share.append('-')
    GDP_bil.append('-')

print(len(Rank),len(State),len(GSDP),len(GSDP_),len(Share),len(GDP_bil))

33 33 33 0 1 1
```

```
In [35]: Gsdp=[]

gsp=driver.find_elements(By.XPATH,'//td[@class="data sorting_1"]')
for i in gsp[0:33]:
    Gsdp.append(i.text)

len(Gsdp)
```

Out[35]: 33

```
In [36]: dc=pd.DataFrame({"RANK":Rank,"STATE":State,"GSDP(18-19)":Gsdp})
```

```
In [38]: dc.head()
```

```
Out[38]:
```

	RANK	STATE	GSDP(18-19)
0	1	Maharashtra	2,632,792
1	2	Tamil Nadu	1,630,208
2	3	Uttar Pradesh	1,584,764
3	4	Gujarat	1,502,899
4	5	Karnataka	1,493,127

```
In [ ]:
```

Question NO 4 Answer

```
In [37]: !pip install selenium
import pandas as pd
import selenium
from selenium import webdriver
from selenium.webdriver.common.by import By
from selenium.common.exceptions import StaleElementReferenceException, NoSuchElementException
import time
```

Requirement already satisfied: selenium in c:\users\chand\anaconda3\lib\site-packages (4.8.0)
 Requirement already satisfied: trio-websocket~=0.9 in c:\users\chand\anaconda3\lib\site-packages (from selenium) (0.9.2)
 Requirement already satisfied: certifi>=2021.10.8 in c:\users\chand\anaconda3\lib\site-packages (from selenium) (2021.10.8)
 Requirement already satisfied: urllib3[socks]~=1.26 in c:\users\chand\anaconda3\lib\site-packages (from selenium) (1.26.9)
 Requirement already satisfied: trio~=0.17 in c:\users\chand\anaconda3\lib\site-packages (from selenium) (0.22.0)
 Requirement already satisfied: async-generator>=1.9 in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.10)
 Requirement already satisfied: exceptiongroup>=1.0.0rc9 in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.1.0)
 Requirement already satisfied: cffi>=1.14 in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.15.0)
 Requirement already satisfied: idna in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (3.3)
 Requirement already satisfied: sniffio in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.2.0)
 Requirement already satisfied: attrs>=19.2.0 in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (21.4.0)
 Requirement already satisfied: outcome in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.2.0)
 Requirement already satisfied: sortedcontainers in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (2.4.0)
 Requirement already satisfied: pycparser in c:\users\chand\anaconda3\lib\site-packages (from cffi>=1.14->trio~=0.17->selenium) (2.21)
 Requirement already satisfied: wsproto>=0.14 in c:\users\chand\anaconda3\lib\site-packages (from trio-websocket~=0.9->selenium) (1.2.0)
 Requirement already satisfied: PySocks!=1.5.7,<2.0,>=1.5.6 in c:\users\chand\anaconda3\lib\site-packages (from urllib3[socks]~=1.26->selenium) (1.7.1)
 Requirement already satisfied: h11<1,>=0.9.0 in c:\users\chand\anaconda3\lib\site-packages (from wsproto>=0.14->trio-websocket~=0.9->selenium) (0.14.0)

```
In [38]: driver=webdriver.Chrome(r'Chromedriver.exe')
```

C:\Users\chand\AppData\Local\Temp\ipykernel_9144\413822959.py:1: DeprecationWarning: executable_path has been deprecated, please pass in a Service object
 driver=webdriver.Chrome(r'Chromedriver.exe')

```
In [39]: driver.get('https://github.com/')
```

```
In [40]: opensource=driver.find_element(By.XPATH, '/html/body/div[1]/div[1]/header/div/div[2]/div/nav/ul/li[3]')
opensource.click()
trendind=driver.find_element(By.XPATH, '/html/body/div[1]/div[1]/header/div/div[2]/div/nav/ul/li[3]/div/ul[3]/li')
trendind.click()
```

```
In [30]: Urls=[]

url=driver.find_elements(By.XPATH, '/html/body/div[1]/div[4]/main/div[3]/div/div[2]/article[1]/h1/a')
for i in url:
    Urls.append(i.get_attribute('href'))
```

```
In [31]: Urls
```

```
Out[31]: ['https://github.com/microsoft/visual-chatgpt']
```

```
In [58]: Name=[]
Discription=[]
Language=[]

try:
    name=driver.find_elements(By.XPATH, '//span[@class="text-normal"]')
    for i in name[0:20]:
        Name.append(i.text)

    discription=driver.find_elements(By.XPATH, '//p[@class="col-9 color-fg-muted my-1 pr-4"]')
    for i in discription[0:20]:
        Discription.append(i.text)

    used=driver.find_elements(By.XPATH, '//span[@class="d-inline-block ml-0 mr-3"]')
    for i in used[0:20]:
        Language.append(i.text)

except NoSuchElementException:
    Discription.append('-')
    Name.append('-')
    Language.append('-')
print(len(Discription),len(Name),len(Language))
```

```
20 20 20
```

```
In [59]: ds=pd.DataFrame({"Repository title":Name,"Repository description":Discription,"Language used":Language})
```

```
In [60]: ds
```

Out[60]:

	Repository title	Repository description	Language used
0	microsoft /	Official repo for the paper: Visual ChatGPT: T...	Python
1	ggerganov /	Port of OpenAI's Whisper model in C/C++	C
2	oobabooga /	A gradio web UI for running Large Language Mod...	Python
3	sindresorhus /	👉 Awesome lists about all kinds of interesting...	TypeScript
4	yetone /	基于 ChatGPT API 的划词翻译浏览器插件和跨平台桌面端应用 - Browser e...	TypeScript
5	wong2 /	A browser extension that enhance search engine...	JavaScript
6	caesarHQ /	Freely available programming books	Python
7	EbookFoundation /	A collective list of free APIs	C
8	public-apis /	Port of Facebook's LLaMA model in C/C++	Java
9	ggerganov /	Samples and Unpacker of malicious backdoors an...	Python
10	davinci1012 /	基于向量数据库与GPT3.5的通用本地知识库方案(A universal local kno...	Jupyter Notebook
11	GanymedeNil /	stable diffusion webui colab	Rust
12	camenduru /	A fast Rust-based web bundler ☐	Astro
13	ann-afame /	Interactive roadmaps, guides and other educati...	Python
14	web-infra-dev /	Chat with Meta's LLaMA models at home made easy	Vim Script
15	kamranahmedse /	Vim-fork focused on extensibility and usability	HTML
16	randaller /	130nm BICMOS Open Source PDK, dedicated for An...	Python
17	neovim /	Stable Diffusion Webui Extension for Civitai, ...	Python
18	IHP-GmbH /	Faster Whisper transcription with CTranslate2	Python
19	butaixianran /	MultiDiffusion implementation with VAE VRAM op...	Python

In []:

Question No 5 Answer

In [1]:

```
!pip install selenium
import selenium
import pandas as pd
import time
from selenium import webdriver
from selenium.common.exceptions import StaleElementReferenceException, NoSuchElementException
from selenium.webdriver.common.by import By
```

Requirement already satisfied: selenium in c:\users\chand\anaconda3\lib\site-packages (4.8.0)
Requirement already satisfied: trio-websocket~=0.9 in c:\users\chand\anaconda3\lib\site-packages (from selenium) (0.9.2)
Requirement already satisfied: urllib3[socks]~=1.26 in c:\users\chand\anaconda3\lib\site-packages (from selenium) (1.26.9)
Requirement already satisfied: certifi>=2021.10.8 in c:\users\chand\anaconda3\lib\site-packages (from selenium) (2021.10.8)
Requirement already satisfied: trio~=0.17 in c:\users\chand\anaconda3\lib\site-packages (from selenium) (0.22.0)
Requirement already satisfied: outcome in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.2.0)
Requirement already satisfied: exceptiongroup>=1.0.0rc9 in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.1.0)
Requirement already satisfied: cffi>=1.14 in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.15.0)
Requirement already satisfied: sortedcontainers in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (2.4.0)
Requirement already satisfied: async-generator>=1.9 in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.10)
Requirement already satisfied: attrs>=19.2.0 in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (21.4.0)
Requirement already satisfied: sniffio in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.2.0)
Requirement already satisfied: idna in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (3.3)
Requirement already satisfied: pycparser in c:\users\chand\anaconda3\lib\site-packages (from cffi>=1.14->trio~=0.17->selenium) (2.21)
Requirement already satisfied: wsproto>=0.14 in c:\users\chand\anaconda3\lib\site-packages (from trio-websocket~=0.9->selenium) (1.2.0)
Requirement already satisfied: PySocks!=1.5.7,<2.0,>=1.5.6 in c:\users\chand\anaconda3\lib\site-packages (from urllib3[socks]~=1.26->selenium) (1.7.1)
Requirement already satisfied: h11<1,>=0.9.0 in c:\users\chand\anaconda3\lib\site-packages (from wsproto>=0.14->trio-websocket~=0.9->selenium) (0.14.0)

In [12]:

```
!pip install bs4
from bs4 import BeautifulSoup
!pip install requests
import requests
```

```
Requirement already satisfied: bs4 in c:\users\chand\anaconda3\lib\site-packages (0.0.1)
Requirement already satisfied: beautifulsoup4 in c:\users\chand\anaconda3\lib\site-packages (from bs4) (4.11.1)
Requirement already satisfied: soupsieve>1.2 in c:\users\chand\anaconda3\lib\site-packages (from beautifulsoup4
->bs4) (2.3.1)
Requirement already satisfied: requests in c:\users\chand\anaconda3\lib\site-packages (2.27.1)
Requirement already satisfied: certifi>=2017.4.17 in c:\users\chand\anaconda3\lib\site-packages (from requests)
(2021.10.8)
Requirement already satisfied: idna<4,>=2.5 in c:\users\chand\anaconda3\lib\site-packages (from requests) (3.3)
Requirement already satisfied: charset-normalizer~=2.0.0 in c:\users\chand\anaconda3\lib\site-packages (from re
quests) (2.0.4)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\users\chand\anaconda3\lib\site-packages (from reques
ts) (1.26.9)
```

```
In [14]: n=requests.get('https://www.billboard.com/')
```

```
In [15]: n
```

```
Out[15]: <Response [200]>
```

```
In [16]: soup=BeautifulSoup(n.content)
```

```
In [30]: driver=webdriver.Chrome(r'Chromedriver.exe')
```

```
C:\Users\chand\AppData\Local\Temp\ipykernel_5932\413822959.py:1: DeprecationWarning: executable_path has been d
eprecated, please pass in a Service object
  driver=webdriver.Chrome(r'Chromedriver.exe')
```

```
In [31]: driver.get('https://www.billboard.com/')
```

```
In [33]: menu=driver.find_element(By.XPATH, "/html/body/div[3]/header/div/div[4]/div/div[1]/div[1]/button")
menu.click()
```

```
In [34]: charts=driver.find_element(By.XPATH, '/html/body/div[3]/div[9]/div/div/div[1]/h3/a')
charts.click()
```

```
In [37]: view=driver.find_element(By.XPATH, '//div[@class="lrv-u-flex lrv-u-justify-content-center"]')
view.click()
```

```
In [41]: This_week=[]

this=driver.find_elements(By.CLASS_NAME, 'c-label a-font-primary-bold-xxl lrv-u-padding-lr-1 lrv-u-padding-t-02')
for i in this[0:100]:
    This_week.append(i.text)
time.sleep(2)

len(This_week)
```

```
Out[41]: 0
```

```
In [45]: Name=[]

try:
    name=driver.find_elements(By.XPATH, '//a[@class="c-title__link lrv-a-unstyle-link"]')
    for i in name[0:100]:
        Name.append(i.text)
except NoSuchElementException:
    Name.append('-')
len(Name)
```

```
Out[45]: 1
```

```
In [46]: Name
```

```
Out[46]: ['Last Night']
```

```
In [47]: dd=pd.DataFrame({'NAME':Name})
```

```
In [48]: dd
```

```
Out[48]:
```

	NAME
0	Last Night

```
In [49]: Last_week=[]

try:
    last=driver.find_elements(By.XPATH, '//span[@class="c-label a-font-primary-m lrv-u-padding-tb-050@mobile-ma
for i in last[0:100]:
    Last_week.append(i.text)
except NoSuchElementException:
```



```
Last_week.append('-')
time.sleep(2)
len>Last_week)
```

Out[49]: 100

In [50]: Peak_rank=[]

```
peak=driver.find_elements(By.XPATH, '/html/body/div[3]/main/div[2]/div[3]/div/div/div/div[2]/div[3]/ul/li[4]/ul/
for i in peak[0:100]:
    Peak_rank.append(i.text)
len(Peak_rank)
```

Out[50]: 1

In [51]: Peak_rank

Out[51]: ['1']

In []:

Question No 6 Answer

In [13]: !pip install selenium
import selenium
import pandas as pd
import time
from selenium.common.exceptions import StaleElementReferenceException, NoSuchElementException
from selenium.webdriver.common.by import By

Requirement already satisfied: selenium in c:\users\chand\anaconda3\lib\site-packages (4.8.0)
Requirement already satisfied: certifi>=2021.10.8 in c:\users\chand\anaconda3\lib\site-packages (from selenium) (2021.10.8)
Requirement already satisfied: trio-websocket~=0.9 in c:\users\chand\anaconda3\lib\site-packages (from selenium) (0.9.2)
Requirement already satisfied: urllib3[socks]~=1.26 in c:\users\chand\anaconda3\lib\site-packages (from selenium) (1.26.9)
Requirement already satisfied: trio~=0.17 in c:\users\chand\anaconda3\lib\site-packages (from selenium) (0.22.0)
Requirement already satisfied: sniffio in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.2.0)
Requirement already satisfied: attrs>=19.2.0 in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (21.4.0)
Requirement already satisfied: sortedcontainers in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (2.4.0)
Requirement already satisfied: outcome in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.2.0)
Requirement already satisfied: exceptiongroup>=1.0.0rc9 in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.1.0)
Requirement already satisfied: idna in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (3.3)
Requirement already satisfied: cffi>=1.14 in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.15.0)
Requirement already satisfied: async-generator>=1.9 in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.10)
Requirement already satisfied: pycparser in c:\users\chand\anaconda3\lib\site-packages (from cffi>=1.14->trio~=0.17->selenium) (2.21)
Requirement already satisfied: wsproto>=0.14 in c:\users\chand\anaconda3\lib\site-packages (from trio-websocket~=0.9->selenium) (1.2.0)
Requirement already satisfied: PySocks!=1.5.7,<2.0,>=1.5.6 in c:\users\chand\anaconda3\lib\site-packages (from urllib3[socks]~=1.26->selenium) (1.7.1)
Requirement already satisfied: h11<1,>=0.9.0 in c:\users\chand\anaconda3\lib\site-packages (from wsproto>=0.14->trio-websocket~=0.9->selenium) (0.14.0)

In [14]: from selenium import webdriver

In [15]: driver=webdriver.Chrome(r'C:\Users\chand\AppData\Local\temp\Chromedriver.exe')

C:\Users\chand\AppData\Local\Temp\ipykernel_17096\223553745.py:1: DeprecationWarning: executable_path has been deprecated, please pass in a Service object
driver=webdriver.Chrome(r'C:\Users\chand\AppData\Local\temp\Chromedriver.exe')

In [16]: driver.get('https://www.theguardian.com/news/datablog/2012/aug/09/best-selling-books-all-time-fifty-shades-grey')

In [17]: Author_name=[]
Volumes_sold=[]
Publisher=[]
Genre=[]

In [27]: Book_name=[]
book=driver.find_elements(By.ID, '/html/body/div/div[2]/div[2]/div/div[2]/div/table/tbody/tr[1]/td[2]')
for i in book[0:100]:

```
Book_name.append(i.text)

time.sleep(2)
len(Book_name)
```

Out[27]: 0

In [28]: Book_name

Out[28]: []

In []:

Question No 7 Answer

```
In [34]: !pip install selenium
import selenium
from selenium import webdriver
from selenium.common.exceptions import StaleElementReferenceException, NoSuchElementException
import pandas as pd
from selenium.webdriver.common.by import By
```

```
Requirement already satisfied: selenium in c:\users\chand\anaconda3\lib\site-packages (4.8.0)
Requirement already satisfied: trio~=0.17 in c:\users\chand\anaconda3\lib\site-packages (from selenium) (0.22.0)
Requirement already satisfied: trio-websocket~=0.9 in c:\users\chand\anaconda3\lib\site-packages (from selenium) (0.9.2)
Requirement already satisfied: certifi>=2021.10.8 in c:\users\chand\anaconda3\lib\site-packages (from selenium) (2021.10.8)
Requirement already satisfied: urllib3[socks]~=1.26 in c:\users\chand\anaconda3\lib\site-packages (from selenium) (1.26.9)
Requirement already satisfied: idna in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (3.3)
Requirement already satisfied: sniffio in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.2.0)
Requirement already satisfied: exceptiongroup>=1.0.0rc9 in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.1.0)
Requirement already satisfied: cffi>=1.14 in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.15.0)
Requirement already satisfied: async-generator>=1.9 in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.10)
Requirement already satisfied: outcome in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.2.0)
Requirement already satisfied: sortedcontainers in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (2.4.0)
Requirement already satisfied: attrs>=19.2.0 in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (21.4.0)
Requirement already satisfied: pycparser in c:\users\chand\anaconda3\lib\site-packages (from cffi>=1.14->trio~=0.17->selenium) (2.21)
Requirement already satisfied: wsproto>=0.14 in c:\users\chand\anaconda3\lib\site-packages (from trio-websocket~=0.9->selenium) (1.2.0)
Requirement already satisfied: PySocks!=1.5.7,<2.0,>=1.5.6 in c:\users\chand\anaconda3\lib\site-packages (from urllib3[socks]~=1.26->selenium) (1.7.1)
Requirement already satisfied: h11<1,>=0.9.0 in c:\users\chand\anaconda3\lib\site-packages (from wsproto>=0.14->trio-websocket~=0.9->selenium) (0.14.0)
```

```
In [35]: driver=webdriver.Chrome(r'Chromedriver.exe')
```

```
C:\Users\chand\AppData\Local\Temp\ipykernel_8884\413822959.py:1: DeprecationWarning: executable_path has been deprecated, please pass in a Service object
  driver=webdriver.Chrome(r'Chromedriver.exe')
```

```
In [36]: driver.get('https://www.imdb.com/list/ls095964455/')
```

```
In [64]: Name=[]
name=driver.find_elements(By.XPATH, '//h3[@class="list-item-header"]')
for i in name:
    Name.append(i.text)
len(Name)
```

Out[64]: 100

```
In [65]: Year_span=[]

year=driver.find_elements(By.XPATH, '//span[@class="list-item-year text-muted unbold"]')
for i in year:
    Year_span.append(i.text)
len(Year_span)
```

Out[65]: 100

```
In [66]: Run_time=[]

run=driver.find_elements(By.XPATH, '//span[@class="runtime"]')
```

```
for i in run:
    Run_time.append(i.text)
len(Run_time)
```

Out[66]: 100

```
In [67]: Genre=[]

genre=driver.find_elements(By.XPATH, '//*[@class="genre"]')
for i in genre:
    Genre.append(i.text)
len(Genre)
```

Out[67]: 100

```
In [68]: Ratings=[]

rating=driver.find_elements(By.XPATH, '//*[@class="ipl-rating-star small"]')
for i in rating[0:100]:
    Ratings.append(i.text)
len(Ratings)
```

Out[68]: 100

```
In [69]: Votes=[]

votes=driver.find_elements(By.NAME, 'nv')
for i in votes:
    Votes.append(i.text)
len(Votes)
```

Out[69]: 100

```
In [71]: dg=pd.DataFrame({"NAME":Name, "GENRE":Genre, "YEAR SPAN":Year_span, "RUN TIME":Run_time, "RATINGS":Ratings, "VOTES":Votes})
```

In [72]: dg

```
Out[72]:
```

	NAME	GENRE	YEAR SPAN	RUN TIME	RATINGS	VOTES
0	1. Game of Thrones (2011–2019)	Action, Adventure, Drama	(2011–2019)	57 min	9.2	2,136,075
1	2. Stranger Things (2016–2024)	Drama, Fantasy, Horror	(2016–2024)	51 min	8.7	1,221,365
2	3. The Walking Dead (2010–2022)	Drama, Horror, Thriller	(2010–2022)	44 min	8.1	1,013,934
3	4. 13 Reasons Why (2017–2020)	Drama, Mystery, Thriller	(2017–2020)	60 min	7.5	298,730
4	5. The 100 (2014–2020)	Drama, Mystery, Sci-Fi	(2014–2020)	43 min	7.6	257,612
...
95	96. Reign (2013–2017)	Drama	(2013–2017)	42 min	7.4	50,981
96	97. A Series of Unfortunate Events (2017–2019)	Adventure, Comedy, Drama	(2017–2019)	50 min	7.8	62,969
97	98. Criminal Minds (2005–)	Crime, Drama, Mystery	(2005–)	42 min	8.1	204,644
98	99. Scream: The TV Series (2015–2019)	Comedy, Crime, Drama	(2015–2019)	45 min	7.1	42,333
99	100. The Haunting of Hill House (2018)	Drama, Horror, Mystery	(2018)	572 min	8.6	253,160

100 rows × 6 columns

In []:

Question No 8 Answer

```
In [53]: !pip install selenium
!pip install bs4
import bs4
import requests
import selenium
import pandas as pd
import time
from selenium.common.exceptions import StaleElementReferenceException, NoSuchElementException
from selenium import webdriver
from selenium.webdriver.common.by import By
```

```

Requirement already satisfied: selenium in c:\users\chand\anaconda3\lib\site-packages (4.8.0)
Requirement already satisfied: certifi>=2021.10.8 in c:\users\chand\anaconda3\lib\site-packages (from selenium) (2021.10.8)
Requirement already satisfied: trio~=0.17 in c:\users\chand\anaconda3\lib\site-packages (from selenium) (0.22.0)
Requirement already satisfied: urllib3[socks]~=1.26 in c:\users\chand\anaconda3\lib\site-packages (from selenium) (1.26.9)
Requirement already satisfied: trio-websocket~=0.9 in c:\users\chand\anaconda3\lib\site-packages (from selenium) (0.9.2)
Requirement already satisfied: sortedcontainers in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (2.4.0)
Requirement already satisfied: sniffio in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.2.0)
Requirement already satisfied: outcome in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.2.0)
Requirement already satisfied: idna in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (3.3)
Requirement already satisfied: async-generator>=1.9 in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.10)
Requirement already satisfied: exceptiongroup>=1.0.0rc9 in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.1.0)
Requirement already satisfied: cffi>=1.14 in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.15.0)
Requirement already satisfied: attrs>=19.2.0 in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (21.4.0)
Requirement already satisfied: pycparser in c:\users\chand\anaconda3\lib\site-packages (from cffi>=1.14->trio~=0.17->selenium) (2.21)
Requirement already satisfied: wsproto>=0.14 in c:\users\chand\anaconda3\lib\site-packages (from trio-websocket~=0.9->selenium) (1.2.0)
Requirement already satisfied: PySocks!=1.5.7,<2.0,>=1.5.6 in c:\users\chand\anaconda3\lib\site-packages (from urllib3[socks]~=1.26->selenium) (1.7.1)
Requirement already satisfied: h11<1,>=0.9.0 in c:\users\chand\anaconda3\lib\site-packages (from wsproto>=0.14->trio-websocket~=0.9->selenium) (0.14.0)
Requirement already satisfied: bs4 in c:\users\chand\anaconda3\lib\site-packages (0.0.1)
Requirement already satisfied: beautifulsoup4 in c:\users\chand\anaconda3\lib\site-packages (from bs4) (4.11.1)
Requirement already satisfied: soupsieve>1.2 in c:\users\chand\anaconda3\lib\site-packages (from beautifulsoup4->bs4) (2.3.1)

```

```

In [54]: driver=webdriver.Chrome(r'Chromedriver.exe')

C:\Users\chand\AppData\Local\Temp\ipykernel_5932\413822959.py:1: DeprecationWarning: executable_path has been deprecated, please pass in a Service object
  driver=webdriver.Chrome(r'Chromedriver.exe')

```

```

In [55]: driver.get('https://archive.ics.uci.edu/ml/index.php')

```

```

In [56]: all_dataset=driver.find_element(By.XPATH, '/html/body/table[2]/tbody/tr/td/span/b/a')
all_dataset.click()

```

```

In [57]: Dataset_name=[]

name=driver.find_elements(By.CLASS_NAME, 'normal')
for i in name[0:100]:
    Dataset_name.append(i.text)
len(Dataset_name)

```

```

Out[57]: 100

```

```

In [64]: Url

```

```

Out[64]: ['https://archive.ics.uci.edu/ml/datasets/Adult']

```

```

In [ ]:

```

Question NO 9 Answer

```

In [29]: !pip install selenium
import pandas as pd
import selenium
from selenium.common.exceptions import StaleElementReferenceException, NoSuchElementException
from selenium import webdriver
from selenium.webdriver.common.by import By
import time

```

Requirement already satisfied: selenium in c:\users\chand\anaconda3\lib\site-packages (4.8.0)
 Requirement already satisfied: trio~=0.17 in c:\users\chand\anaconda3\lib\site-packages (from selenium) (0.22.0)
 Requirement already satisfied: certifi>=2021.10.8 in c:\users\chand\anaconda3\lib\site-packages (from selenium) (2021.10.8)
 Requirement already satisfied: urllib3[socks]~=1.26 in c:\users\chand\anaconda3\lib\site-packages (from selenium) (1.26.9)
 Requirement already satisfied: trio-websocket~=0.9 in c:\users\chand\anaconda3\lib\site-packages (from selenium) (0.9.2)
 Requirement already satisfied: async-generator>=1.9 in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.10)
 Requirement already satisfied: cffi>=1.14 in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.15.0)
 Requirement already satisfied: outcome in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.2.0)
 Requirement already satisfied: sortedcontainers in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (2.4.0)
 Requirement already satisfied: exceptiongroup>=1.0.0rc9 in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.1.0)
 Requirement already satisfied: idna in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (3.3)
 Requirement already satisfied: sniffio in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.2.0)
 Requirement already satisfied: attrs>=19.2.0 in c:\users\chand\anaconda3\lib\site-packages (from trio~=0.17->selenium) (21.4.0)
 Requirement already satisfied: pycparser in c:\users\chand\anaconda3\lib\site-packages (from cffi>=1.14->trio~=0.17->selenium) (2.21)
 Requirement already satisfied: wsproto>=0.14 in c:\users\chand\anaconda3\lib\site-packages (from trio-websocket~=0.9->selenium) (1.2.0)
 Requirement already satisfied: PySocks!=1.5.7,<2.0,>=1.5.6 in c:\users\chand\anaconda3\lib\site-packages (from urllib3[socks]~=1.26->selenium) (1.7.1)
 Requirement already satisfied: h11<1,>=0.9.0 in c:\users\chand\anaconda3\lib\site-packages (from wsproto>=0.14->trio-websocket~=0.9->selenium) (0.14.0)

```
In [30]: driver=webdriver.Chrome(r'Chromedriver.exe')
```

C:\Users\chand\AppData\Local\Temp\ipykernel_17096\413822959.py:1: DeprecationWarning: executable_path has been deprecated, please pass in a Service object
 driver=webdriver.Chrome(r'Chromedriver.exe')

```
In [31]: driver.get('https://www.naukri.com/hr-recruiters-consultants')
```

```
In [32]: data=driver.find_element(By.XPATH,'//input[@class="sugInp"]')
data.send_keys("Data science")
search=driver.find_element(By.XPATH,'/html/body/div[2]/div[2]/div[1]/div[1]/form/div[1]/button')
search.click()
```

```
In [49]: Name=[]

name=driver.find_elements(By.XPATH,'//span[@class="fl ellipsis"]')
for i in name:
    Name.append(i.text)
len(Name)
```

```
Out[49]: 50
```

```
In [51]: Designation=[]

desig=driver.find_elements(By.XPATH,'//span[@class="ellipsis clr"]')
for i in desig:
    Designation.append(i.text)
len(Designation)
```

```
Out[51]: 50
```

```
In [52]: Company=[]
Skills=[]
Location=[]

try:
    skill=driver.find_elements(By.XPATH,'//div[@class="hireSec highlightable"]')
    for i in skill:
        Skills.append(i.text)

    location=driver.find_elements(By.XPATH,'//small[@class="ellipsis"]')
    for i in location:
        Location.append(i.text)

except NoSuchElementException:
    Company.append('-')
    Skills.append('-')
    Location.append('-')

time.sleep(2)
```

```
In [53]: print(len(Skills),len(Location))
```

```
In [55]: cc=pd.DataFrame({"NAME":Name,"FESIGNATION":Designation,"SKILLS":Skills})
```

```
In [58]: cc.head(10)
```

```
Out[58]:
```

	NAME	FESIGNATION	SKILLS
0	Aakash Harit	HR Manager	Classic ASP Developer, Internet Marketing Prof...
1	shravan Kumar Gaddam	Company Recruiter	.Net, Java, Data Science, Linux Administration...
2	MARSIAN Technologies LLP	Company HR	Data Science, Artificial Intelligence, Machine...
3	Anik Agrawal	Company Recruiter	Mean Stack, javascript, angularjs, mongodb, We...
4	subhas patel	Founder CEO	Hadoop, Spark, Digital Strategy, Data Architec...
5	Abhishek - Only Analytics Hiring - India and	Recruitment Lead Consultant	Analytics, Business Intelligence, Business Ana...
6	Institute for Financial Management and Resear	Programme Manager	Data Science
7	Balu Ramesh	HR Administrator	Machine Learning, algorithms, Go Getter, Compu...
8	Asif Lucknowi	Director	Technical Training, Software Development, Pres...
9	InstaFinancials	Human Resource	Software Development, It Sales, Account Manage...

```
In [ ]:
```

Loading [MathJax]/jax/output/CommonHTML/fonts/TeX/fontdata.js