**Question 1 and 2**

!pip install selenium

import selenium

from selenium import webdriver

import pandas as pd

from selenium.webdriver.common.by import By

from selenium.webdriver.support.ui import WebDriverWait

from selenium.webdriver.support import expected\_conditions as EC

import warnings

warnings.filterwarnings('ignore')

import time

driver = webdriver.Chrome()

driver.get ("[https://www.amazon.in](https://www.amazon.in/)")

searchitem = driver.find\_element(By.CLASS\_NAME,"nav-input")

searchitem.send\_keys('Guitar')

search =driver.find\_element(By.XPATH,"/html/body/div[1]/header/div/div[1]/div[2]/div/form/div[3]/div")

search.click()

#Scrape product urls

product\_urls =[]

start =0

end=3

for page in range(start,end):

urls =driver.find\_element(By.XPATH,)

**Question 3**

**# Install required libraries**

import selenium

from selenium import webdriver

import pandas as pd

from selenium.webdriver.common.by import By

from selenium.webdriver.support.ui import WebDriverWait

from selenium.webdriver.support import expected\_conditions as EC

import warnings

warnings.filterwarnings('ignore')

import time

**# Opening the webpage in automated browser**

driver = webdriver.Chrome()

driver.get ("[https://images.google.com](https://images.google.com/)")

**# Putting the search input as Fruits, with use of class name**

searchitem = driver.find\_element(By.CLASS\_NAME,"gLFyf")

searchitem.send\_keys('fruits')

**#Click button to search**

search =driver.find\_element(By.CLASS\_NAME,"zgAlFc")

search.click()

Similarly, we can scrape for 'Cars', Machine Learning', 'Guitar' and 'Cakes' by Same steps,

**# Putting the search input as Guitar, with use of class name**

searchitem = driver.find\_element(By.CLASS\_NAME,"gLFyf")

searchitem.send\_keys('Cars')

**# Putting the search input as Guitar, with use of class name**

searchitem = driver.find\_element(By.CLASS\_NAME,"gLFyf")

searchitem.send\_keys('Guitar')

**# Putting the search input as Guitar, with use of class name**

searchitem = driver.find\_element(By.CLASS\_NAME,"gLFyf")

searchitem.send\_keys('Cakes')

**#Click button to search**

search =driver.find\_element(By.CLASS\_NAME,"zgAlFc")

search.click()

**Question 4**

**# Opening the webpage in automated browser**

driver = webdriver.Chrome()

driver.get("https://www.flipkart.com/search?q=smartphone&otracker=search&otracker1=search&marketplace=FLIPKART&as-show=on&as=off")

**#Creating empty list for the required columns**

Brand\_Name=[]

Colour=[]

Storage\_RAM\_ROM=[]

P\_F\_Camera=[]

Display\_size\_Resolution=[]

ProcessorAndCores=[]

Battery=[]

Price=[]

Product\_URL=[]

**# Scraping the Brand\_Name**

BName=driver.find\_elements\_by\_xpath("//div[@class='\_4rR01T']")

for i in BName:

if i.text is None :

Brand\_Name.append("--")

else:

Brand\_Name.append(i.text)

print(len(Brand\_Name),Brand\_Name)

**# Scraping the Primary Camera**

PC=driver.find\_elements\_by\_xpath("//ul[@class='\_1xgFaf']//li[3]")

for i in PC:

if i.text is None :

P\_F\_Camera.append("--")

else:

P\_F\_Camera.append(i.text)

print(len(P\_F\_Camera),P\_F\_Camera)

**#Scraping the Storage\_RAM\_ROM**

ram=driver.find\_elements\_by\_xpath("//ul[@class='\_1xgFaf']//li[1]")

for i in ram:

if i.text is None :

Storage\_RAM\_ROM.append("--")

else:

Storage\_RAM\_ROM.append(i.text)

print(len(Storage\_RAM\_ROM),Storage\_RAM\_ROM)

FlipKart=pd.DataFrame([])

FlipKart['Brand\_Name']=Brand\_Name

FlipKart['Storage\_RAM\_ROM']=Storage\_RAM\_ROM

FlipKart['Amount P\_F\_Camera']=P\_F\_Camera

FlipKart

**Question 5:**

import selenium

from selenium import webdriver

import pandas as pd

from selenium.webdriver.common.by import By

from selenium.webdriver.support.ui import WebDriverWait

from selenium.webdriver.support import expected\_conditions as EC

import warnings

warnings.filterwarnings('ignore')

import time

# opening google maps

driver = webdriver.Chrome()

driver.get("https://www.google.co.in/maps/")

sleep(2)

# search locations

def searchplace():

Place = driver.find\_element\_by\_class\_name("tactile-searchbox-input")

Place.send\_keys("Dallas")

Submit = driver.find\_element\_by\_xpath("/html/body/jsl/div[3]/div[9]/div[3]/div[1]/div[1]/div[1]/div[2]/div[1]/button")

Submit.click()

searchplace()

**Question 6:**

driver = webdriver.Chrome()

url="https://www.digit.in/top-products/best-gaming-laptops-40.html"

driver.get(url)

Brands=[]

Products\_Description=[]

Specification=[]

Price=[]

**# Scrape the brands**

br=driver.find\_elements\_by\_xpath("//div[@class='TopNumbeHeading active sticky-footer']")

len(br)

for i in br:

Brands.append(str(i.text).replace("\n",""))

Brands

# **Scrape the Product description**

des=driver.find\_elements\_by\_xpath("//div[@class='Section-center']")

len(des)

for i in des:

Products\_Description.append(str(i.text).replace("\n",""))

Products\_Description

**#Scrape the Specification**

sp=driver.find\_elements\_by\_xpath("//div[@class='Specs-Wrap']")

len(sp)

for i in sp:

Specification.append(str(i.text).replace("\n",""))

Specification

# **Scrape the price**

pri=driver.find\_elements\_by\_xpath("//td[@class='smprice']")

len(pri)

for i in pri:

Price.append(str(i.text).replace("\n",""))

Price

**Question 7**

import selenium

from selenium import webdriver

import pandas as pd

from selenium.webdriver.common.by import By

from selenium.webdriver.support.ui import WebDriverWait

from selenium.webdriver.support import expected\_conditions as EC

import warnings

warnings.filterwarnings('ignore')

import time

Billionaire =[]

#Opening the webpage

driver = webdriver.Chrome()

driver.get("https://www.forbes.com/billionaires/")

Billionaire\_data = driver.find\_elements(By.XPATH,"/html/body/div[1]/div[2]/div[3]/div[2]/div[2]/div[2]/div[1]/div[1]/div[1]/div[2]")

for i in Billionaire\_data:

Billionaire.append(i.text)

print(Billionaire)

**Question 8**

**#Importing necessary libraries**

import selenium

from selenium import webdriver

import pandas as pd

from selenium.webdriver.common.by import By

from selenium.webdriver.support.ui import WebDriverWait

from selenium.webdriver.support import expected\_conditions as EC

import warnings

warnings.filterwarnings('ignore')

import time

**#Open the youtube.com**

driver = webdriver.Chrome()

driver.get("https://www.youtube.com/watch?v=kuhhT\_cBtFU&t=2s")

**#Scrape for comments**

comments = driver.find\_elements(By.XPATH,"/html/body/ytd-app/div[1]/ytd-page-manager/ytd-watch-flexy/div[5]/div[1]/div/div[2]/ytd-comments/ytd-item-section-renderer/div[3]/ytd-comment-thread-renderer[1]/ytd-comment-renderer/div[3]/div[2]/div[2]/ytd-expander/div")

for i in comments:

comment\_text.append(i.text)

print(comment\_text)

**Question 9**

import selenium

from selenium import webdriver

import pandas as pd

from selenium.webdriver.common.by import By

from selenium.webdriver.support.ui import WebDriverWait

from selenium.webdriver.support import expected\_conditions as EC

import warnings

warnings.filterwarnings('ignore')

import time

**#Open the hostelworld.com**

driver = webdriver.Chrome()

driver.get("https://www.hostelworld.com")

**# Putting the search input**

searchitem = driver.find\_element(By.CLASS\_NAME," input-wrapper")

searchitem.send\_keys('London')

**#Click button to search**

search =driver.find\_element(By.CLASS\_NAME,"zgAlFc")

search.click()