	<pre>import requests from bs4 import BeautifulSoup import time from selenium import webdriver import re import pandas as pd import functools from functools import reduce</pre>
In [ ]:	<pre>#function to get the url for desired job role def get_url(position,page,post):     template='https://www.naukri.com/{}-jobs-{}?k={}'     url=template.format(position,page,post)     return url</pre>
	<pre>#user input for url post=input("Search job role: ") position=post page=1</pre>
In [ ]:	<pre>#To check if the website allows web scraping response = requests.get(url) print(response)</pre>
In [ ]:	response.reason
In [ ]:	<pre>#To trim the html tags from required data using Regular expressions def cleanhtml(raw_html):     cleanr = re.compile('&lt;.*?&gt;')     cleantext = re.sub(cleanr, '', raw_html)     return cleantext</pre>
In [ ]:	<pre>#create a new dataframe for scraped data df = pd.DataFrame(columns=['Company','Description','Experience','Location','Salary','S df</pre>
In [ ]:	<pre>for i in range(1,21):#to navigate through 20 pages     print("page : ",i)     url=get_url(position,i,post)#pass i for page     driver = webdriver.Chrome("D:\chromedriver.exe")     driver.get(url)</pre>
	<pre>time.sleep(10)  soup = BeautifulSoup(driver.page_source, 'html5lib') #print(soup.prettify())</pre>
	<pre>driver.close() #to get a job card</pre>
	<pre>temp = soup.find(class_='list') cards = temp.find_all('article',class_='jobTuple bgWhite br4 mb-8') #print(len(cards))</pre>
	<pre>for cards in cards:#navigate through all job cards in a page     comp_a = cards.find('a',class_='subTitle ellipsis fleft')</pre>
	<pre>if comp_a is not None:#if company name is given</pre>
	<pre>else:#if company name is not given    pass # Location</pre>
	<pre>Loc = cards.find('li',class_='fleft grey-text br2 placeHolderLi location') if Loc is not None:#check if location is given     Loc_span = Loc.find('span',class_='ellipsis fleft fs12 lh16')     if Loc_span is not None:#if location is given         Location = Loc_span.text.strip()         print(Location)</pre>
	else:  pass  else:#if location not is given
	<pre>pass # Years of experience Required</pre>
	<pre>Exp = cards.find('li',class_='fleft grey-text br2 placeHolderLi experience') if Exp is not None:#if experience is given     Exp_span = Exp.find('span',class_='ellipsis fleft fs12 lh16') if Exp_span is not None:#if experience is given     Experience = Exp_span.text     print(Experience)</pre>
	else:#if experience is not given pass
	else: pass
	<pre># Salary offered Sal = cards.find('li',class_='fleft grey-text br2 placeHolderLi salary') #Sal_span = Sal.find('span',class_='ellipsis fleft fs12 lh16') if Sal is not None: #if Salary is given</pre>
	<pre>else:     pass#if salary is not given else:</pre>
	<pre>#To get all skills in a jobcard finding all li tags in ul and printing the text Skill=[] sk1 = cards.find(class_='tags has-description') sk2 = sk1.find_all('li',class_='fleft fs12 grey-text lh16 dot') for li in sk2 :     li=str(li)</pre>
	<pre>li=cleanhtml(li)     Skill.append(li) print(Skill)</pre>
	<pre>#Description desc = cards.find('div',class_='job-description fs12 grey-text') if desc is not None:</pre>
	<pre>pass#if description is not given</pre>
	#Append rows in Dataframe  df=df.append({'Company':Company,'Description':Description,'Experience':Expe
In [ ]:	<pre>print(df)</pre>
In [ ]:	<pre>print(df.shape) print(df.head(10)) print(df.tail(10))</pre>
In [ ]:	<pre>#store dataframe in a file df.to_csv("D:/Scrape_Naukri.csv",index=False)</pre>
In [ ]:	<pre>print(df['Skills'])</pre>
In [ ]:	<pre>print('DataFrame information: ',df.info())</pre>
In [ ]:	<pre>sk_set=df['Skills'].to_list() print(sk_set)</pre>
In [ ]:	<pre>#flatten list(2d to 1d) Skills_1d = reduce(lambda z, y : z + y, sk_set) print(Skills_1d)</pre>
In [ ]:	<pre>#To print unique skill element count using dictionary(skill_count) Skill_count = dict(zip(list(Skills_1d),[list(Skills_1d).count(i) for i in list(Skills_print("Dictionary: ",Skill_count)) print("Count: ",len(Skill_count)) print(Skill_count)</pre>
In [ ]:	<pre>#storing this dictionary to a dataframe S_count S_count = pd.DataFrame.from_dict(Skill_count , orient ='index') S_count</pre>
In [ ]:	<pre>#store dataframe in a file S_count.to_csv("D:/Skill_count.csv")</pre>
In [ ]:   In [ ]:	

In [ ]: #import all required packages

from datetime import datetime

import csv