```
data=driver.find_element_by_xpath('//button[contains(@class," L3NKy")]')
           data.click()
           driver.implicitly_wait(10)
           data=driver.find_element_by_id('m_login_email')
           data.send_keys('SAMPLE USERNAME')
           data=driver.find_element_by_id('m_login_password')
           data.send_keys('SAMPLE PASSWORD')
           data=driver.find_element_by_name('login')
           data.click()
           driver.implicitly_wait(10)
           data=driver.find_element_by_xpath('//button[contains(@class, "a001W")]')
           data.click()
           dic={}
           C=0
           for i in range(20):
                if c>10:
                data=driver.find_element_by_xpath('//input[contains(@class,"XTCLo")]')
                data.clear()
                data.send_keys('food')
                driver.implicitly_wait(10)
                data=driver.find_elements_by_xpath('//span[contains(@class, "Ap253")]')
                handle=data[i].text
                if handle[0]!='#':
                     data[i].click()
                     c=c+1
                     data=driver.find_element_by_xpath('//h1[contains(@class,"_7UhW9")]')
                     val=data.text
                     data=BeautifulSoup(driver.page_source, 'html.parser')
                     new_data=data.a.span
                     final_data=new_data['title']
                     final_data=int(final_data.replace(',',''))
                     final_data
                     dic[val]=final_data
                     driver.back()
                     driver.implicitly wait(10)
                     data=driver.find_element_by_xpath('//button[contains(@class, "a00lw")]')
                     data.click()
                else:
                     data[i].click()
                     driver.back()
                     driver.implicitly_wait(10)
                     data=driver.find_element_by_xpath('//button[contains(@class, "a001W")]')
                     data.click()
           top_5={}
           for i in range(5):
                maxy=-999999
                for j in dic:
                     if dic[i]>maxv:
                         max name=i
                         maxy=dic[j]
                top_5[max_name]=maxy
                dic[max_name]=-99999999999
           print('Top 5 followers')
           top_5_blog=[]
           for i in top_5:
                top_5_blog.append(i)
           for i in top_5_blog:
                print(i)
           Top 5 followers
           foodnetwork
           foodgod
           foodtalkindia
           foodmaniacindia
           foodiesince96
           (1.2) Now Find the number of posts these handles have done in the previous 3 days.
In [13]: | no_of_posts={}
           for t in top_5_blog:
                count=0
                data=driver.find_element_by_xpath('//input[contains(@class,"XTCLo")]')
                data.send_keys(t)
                driver.implicitly_wait(10)
                data=driver.find_element_by_xpath('//span[contains(@class, "Ap253")]')
                data.click()
                driver.implicitly_wait(10)
                for i in range(12):
                     driver.execute_script('window.scrollBy(0,2000);')
                     time.sleep(1)
                data=driver.find_elements_by_xpath('//div[contains(@class,"_9AhH0")]')
                for j in range(12):
                     driver.execute_script('window.scrollBy(0, -2000);')
                     time.sleep(1)
                driver.execute_script('window.scrollBy(0,500);')
                final=data
                driver.implicitly_wait(10)
                for k in range(len(final)):
                     data=driver.find_elements_by_xpath('//div[contains(@class,"_9AhH0")]')
                     driver.execute_script('window.scrollBy(0,80);')
                     driver.implicitly_wait(10)
                     data[k].click()
                     driver.implicitly_wait(10)
                     dta=driver.find_element_by_xpath('//time[contains(@class, "FH9sR")]')
                     val=dta.text
                     if val[-1]=='d':
                         new_val=int(val[0:-1])
                         if new_val<4:</pre>
                              count=count+1
                          else:
                              new=driver.find_element_by_xpath('//button[contains(@class,"ckWGn")]')
                              new.click()
                              break
                     else:
                         if val[-1]=='h':
                              count=count+1
                          elif val[-1]=='m':
                              count=count+1
                          else:
                              new=driver.find_element_by_xpath('//button[contains(@class,"ckWGn")]')
                              new.click()
                              break
                     new=driver.find_element_by_xpath('//button[contains(@class,"ckWGn")]')
                     new.click()
                no_of_posts[t]=count
           handles=[]
           number_posts=[]
           for i in no_of_posts:
                handles.append(i)
                number_posts.append(no_of_posts[i])
           for i in range(len(handles)):
                print(handles[i], '', number_posts[i])
           foodnetwork 33
           foodgod 2
           foodtalkindia 8
           foodmaniacindia 7
           foodiesince96 12
           (1.3) Depict this information using a suitable graph.
In [16]: import matplotlib.pyplot as plt
           plt.bar(handles, number_posts, color='red')
           plt.xticks(rotation=90)
           plt.xlabel('Handles')
           plt.ylabel('No_of_posts')
           plt.title('Handles vs No. of Posts')
           plt.show()
                               Handles vs No. of Posts
              30
              25
              20
          6
5
15
              10
                                      Handles
           2. Your friend also needs a list of hashtags that he should use in his
           posts.
           (2.1) Open the 5 handles you obtained in the last question, and scrape the content of the
           first 10 posts of each handle.
In [17]: | top_5_post_content={}
           for t in top_5_blog:
                post_content={}
                data=driver.find_element_by_xpath('//input[contains(@class,"XTCLo")]')
                data.send_keys(t)
                driver.implicitly_wait(10)
                data=driver.find_element_by_xpath('//span[contains(@class, "Ap253")]')
                data.click()
                driver.implicitly_wait(10)
                driver.execute_script('window.scrollBy(0,500);')
                for p in range(10):
                     data=driver.find_elements_by_xpath('//div[contains(@class,"_9AhH0")]')
                     driver.execute_script('window.scrollBy(0,80);')
                     driver.implicitly_wait(10)
                     data[p].click()
                     driver.implicitly_wait(10)
                    num='post'+str(p+1)
                     data=driver.find_element_by_xpath('//div[contains(@class,"C4VMK")]/span')
                     value=data.text
                     post_content[num]=value
                    new=driver.find_element_by_xpath('//button[contains(@class,"ckWGn")]')
                    new.click()
                top_5_post_content[t]=post_content
           print(top_5_post_content)
           {'foodnetwork': {'post1': 'French toast just got bruleed (and it will never be the same!) [
           \n. . .\nWatch @bobbyflay on all-new episodes of #WorstCooks > Sundays at 9|8c\n. . .\nFind t
           he recipe for Creme Brulee French Toast at FoodNetwork.com!', 'post2': 'Reasons why we don't
           want summer (aka grilling season) to end: these tender, smoky RIBS! Wow, wow, wow, Sasquatch
           BBQ !!', 'post3': 'We have DREAMS about this ooey, gooey cookie dough cup [] This is on another
           level, @madebyablonde!', 'post4': 'This chocolate-covered gelato dome is inspired by the Baci
           truffle [] We could watch the moment at :45 on REPEAT... [], @qualityitalian! #FoodNetworkFind
           s', 'post5': "Chicken Pot Pie... in a MUG?! Don't knock it 'til you try it!\n. . .\nWatch @je
           ffmauro on #TheKitchen, tomorrow at 11a|10c!\n. . .\nFind the recipe at FoodNetwork.com!", 'p
           ost6': 'We Tried Foods from New England [\n\nNew [ England [ Clam [ Chowder [ Need we say mor
           e?! On this week's #TasteTest, we're trying regional foods from New England!', 'post7': "Baco
           n-Wrapped Meatloaf from #DDD [\n\nAnything is better wrapped in bacon, especially meatloaf fr
           om @josdinermissionhills!\n\nWatch #DDD with @Guyfieri > Tonight at 9|8c\n\nGet the recipe fo
           r Jo's Bacon-Wrapped Meatloaf at FoodNetwork.com!", 'post8': 'Recipe of the Day: Spicy Lemon
           Shrimp Skewers [] \n. . .\nFind the recipe at FoodNetwork.com!', 'post9': 'Because Brownie Pop
           s >>> Cake Pops [] \n. . .\nWatch new episodes of @ThePioneerWoman, every Saturday @ 10a|9c!
           \n. . .\nFind the recipe at FoodNetwork.com!', 'post10': 'This Campfire Skillet Cookie is on
           fire <code>||||\n...\nGet</code> the recipe at FoodNetwork.com!'}, 'foodqod': {'post1': 'Too sweet or jus
           t right? Two of my favorite things..funnel cake and churros!!! \u2063\u2063\nD TAG A DESSERT L
           OVERU\u2063\u2063\nU: @grubspot', 'post2': 'Hollywood ain't easy, not even for my favorite UK
           star @gemmacollins1', 'post3': 'I found the NEXT MOST instagramable Cafe and it's hidden insi
           de of Harrods!', 'post4': 'Would you eat the TOP, the BOTTOM or BOTH!!\u2063\n\u2063\n\@eastv
           illagepizza', 'post5': 'I was in Foodgod heaven... till she ruined it [] @diora_u', 'post6':
           'Are you ok @HamletCouture ??? He almost died squeezing my juice\n\nEnjoying the paradise tha
           t is @paramount_bodrum', 'post7': 'Wait for the Waterfall.. \u2063\u2063\u2063\u2063\nWould y
           ou share this or eat it alone??\u2063\u2063\u2063\u2063\nu2063\u2063\u2063\u2063\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063\\u2063
           kitchen', 'post8': 'Is anyone else obsessed with cotton candy as I am??? @mezemisolondon', 'p
           ost9': 'Tag a friend who also eats their feelings!! \u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u2063\u
           063\u2063\n@sereasandiego', 'post10': 'Wow it's real...literally endless apps @tgifridays and
           I took full advantage of it!! \u2063\nWho can relate?? #a d'}, 'foodtalkindia': {'post1': '#D
           iscoverDelhi\nThe Big Chill Cafe always a good idea, never disappoints .\nWhere: The Big Chi
           ll Cafe\nBy: @munchingmurmurs', 'post2': '#OfferAlert #FarziCafe\n\n@farzicafe Snazzy decor,
           young vibes and artful fusion cuisine, no wonder we keep going back for more [\n\nThe trendy
           cafe is celebrating it's 5th birthday and has a special treat for all you foodies. Enjoy a co
           mplimentary meal for every 5th person dining on the table.\n\nBook now as we are told they ar
           e running out of tables!\n\nTerms & conditions: Offer till limited time period only', 'post
           3': "The culinary world has been hit by a storm, Bangkok's often synonymous with chef @gaggan
           \_anand 's two time Michelin star restaurant, Gaggan has closed its door. The restaurant had a
           n extravagant 25-course emoji menu with exquisite wines and the opportunity to be hosted by t
           he chef himself, what could be better? The restaurant that held a record of four consecutive
           years voted Asia's Best Restaurant in 2015, served the last meal, with a special invite-only
           section.\n\nIt's definitely the end of a culinary era, but as Gaggan Anand bid adieu to the r
           estaurant he gave a decade of his life to, he is already writing the next chapter of his rema
           rkable food story. While this period has been emotional for Anand and his loyal customer bas
           e, this October, a new restaurant called 'Gaggan Anand' will open at an undisclosed location
           in Bangkok, led by the passionate chef and with the same team of assistants. .\n.\n[]: www.dan
           ielagamboa.com", 'post4': "If your birthday falls on the 6th/16th/26th of any month, you're i
           n luck- come enjoy a special 25% DISCOUNT and a BOTTLE OF WINE at @guppydelhi !* They're also
           treating you with a 6 course 'SUPERSTARS MENU' featuring some of Guppy's best loved dishes, a
           t a special price of Rs. 1666!\n#ManyGuppyReturns with the #GuppyGang\nfrom 18th Aug-19th Se
           p. .\n.\nTag someone lucky with a 6 in their birth date who's taking you to join in the festi
           vities! [[]] .\n.\n*Terms and conditions apply.", 'post5': "#NewInTown\nElevated Spanish tapa
           s is what the newest Spanish restaurant and bar, @lalatinatapasbar is all about. This newly o
           pened restaurant has brought the Spanish culture of enjoying tapas right to the heart of our
           city. The space aims to highlight the generosity, authenticity, and vibrancy of the Spanish c
           ulture, showcasing Spain's most iconic tapas. With playful decor and an open format kitchen,
           the place gives the guests a chance to interact with the chefs, communal style seating with f
           ew tables around the window and a small balcony overlooking the market garden, giving you fee
           ls straight out of one of Barcelona's many chic cafes!\n\nComing to the food, the menu is ver
           y progressive with a modern European twist and some iconic dishes like the smoked lamb cigar
           served with truffle cauliflower puree and leek ash, and a savory creme brûlée with onion cara
           mel and a classic Peruvian ceviche. We tried the charcuterie platter with the smoked duck bre
           ast which was lovely and something you usually don't find on a charcuterie platter. The pork
           belly anticucho, king prawns in olive oil and black-garlic miso and the pork rillettes were t
           ruly heavenly and cannot be missed.\n\nThe sweet miso tart, which was divine with a delicate
           melange of flavours and textures and the chocolate soufflé with olive oil ice cream is surely
           a crowd-pleaser.\n\nWith great food, a vibrant space and playful vibes, La Latina is sure to
           give you an experience like no other!", 'post6': 'Thank you Farzi for the innovative and dram
           atic culinary experience! @farzicafe\n\nFeeding our Insta obsession with kitsch presentation
           as much as our souls with flavourful & delightful food.\n\nWith Farzi now open in 7 countrie
           s, you can experience this trendy modern Indian Bistro in your hood!\n\nCheckout our favourit
           es and get Farzified!', 'post7': 'Think delicious Pan- Asian flavours packed together and del
           ivered right to your doorstep. @orientheritage brings you just that! A delicious Aburi Sushi
           menu with an array of choices like salmon, tuna, prawn and avocado perfectly paired with a un
           ique sauce for you to have a feast at home! [[[]] .\nSo what are you waiting for? Order away!
           .\n.\n@theheritagefood #theheritagefood #orientheritage', 'post8': '#PoojaDhingra #TalkChef\n
           \nThe Pastry Princess is responsible for leading the gourmet dessert movement in the country
           especially that of Macarons. @poojadhingra\n\nThe successful entrepreneur dons many hats - th
           at of a food writer, teacher, and recently made a podcast that has topped the charts in the c
           ountry. She is also featured on Forbes 30 Under 30 Asia achievers list.\n\nHer biggest challe
           nge in making delectable desserts is not to eat them. Head to @le15india to try her famous de
           "With a vision of bringing Indian cuisine back 'in-vogue', @farzicafe has showcased a unique
           and modernist approach to Indian food, where the cuisine speaks for itself, as it surprises t
           he palate like never before.\nOver the last 5 years, Farzi has reached culinary excellence in
           7 countries giving guests an epicurean experience and a nostalgia that keeps them going back
           for more.\nThe Farzi experience is one you should definitely not miss out on!", 'post10': '#T
           alkHiddenGems #GungThePalace\n\nOffering an authentic Korean experience with delicious food,
           serene ambience and signature low seating, Gung The Palace is an absolute winner when it come
           s to traditional Korean experience.\n\nWe recommend the succulent and subtly-flavoured pork q
           albi {grilled ribs} and the bibimbap {rice topped with vegetables, beef and egg, mixed with c
           hilli paste}, the Ddukbeki Bulgogi {beef marinated in a hot stone pot, accompanied by rice} a
           nd Donkkaseu Omeurice {pork cutlet with omelette rice}. The portions are generous, and are ac
           companied with a dozen intriguing side dishes—including four kinds of kimchi, octopus cakes,
           shellfish with noodles.\n\nHit up any of the three outlets in Delhi NCR with your buddies for
           a delectable Korean meal\n.\n[] Green Park; Sector 29 Gurgaon & Sector 132 Noida\n.\n[] : @Whims
           ical_paradox\nPS. The price point is a little high, so be prepared!'}, 'foodmaniacindia': {'p
           ost1': 'Missing this delicious spread so badly [[[[[[]]]]]] \nWe visited @1559ad in Udaipur and fell
           in love with the place. The decor is so pretty and the food is absolutely smashing! Amongst o
           ther things we tried Kadhi Chawal & Dal Baati Choorma which were really delicious!\nMust Visi
           t when you are in Udaipur!\nTag someone who loves Indian lunch[[]\n.\n.\n.\n.\n.\n[] @foodmania
           cindia\n#foodmaniacindia #udaipur #udaipurtimes #udaipurblog #udaipurdiaries #rajasthan #raja
           sthani #rajasthanifood #rajasthantourism #indianfood #indiagram #indiatravel #indiapictures #
           incredibleindia #indiatravelgram #foodiesofinstagram #storiesofindia', 'post2': 'FRIYAY Cravi
           ngs!! [][][]\nTag your Friends![]\n.\n[] Milkshake & Co., Kailash Colony, Delhi[]\n[] by @_adatew
           ithlife_ .\n.\n.\n#foodmaniacindia #fries #friyay #friyayvibes #friday #foodporn #huffposttas
           te #buzzfeast #buzzfeedtasty #forkyeah #f52grams #delhifood #delhifoodie #delhite #delhincr #
           delhiblogger #delhidiaries #delhigram #delhi_igers #delhilove #dilli #indianfood #indiagram #
           indiaclicks', 'post3': 'I'm feeling so Hungry right now!!00000\nSuper Cheesilicious Veg Che
           ese Panini from Raju Sandwich, Fort, Mumbaill\nl by @kolkataepicurean\n.\nTag vour Squad!ll
           \n.\n.\n.\n#foodmaniacindia #sandwich #cheeseporn #foodporn #foodgasm #instafood #huffposttas
           te #buzzfeast #buzzfeedfood #indianfood #storiesofindia #streetsofindia #streetsofmumbai #mum
           bai #mumbaifood #mumbairains #mumbaidiaries #mumbaiblogger #mumbaistagram #mumbaikar #mumbai_
           igers #mumbai ig #bombay', 'post4': 'Awesomely Delicious Dinner scenes!!0000\nWe absolute
           ly loved the juicy and droolicious Prawn Linguine & Chicken Pizzaiola! Must try at @jamiesita
           lianindia [][\n.\n[] by @foodmaniacindia\n.\n.\n.\n#foodmaniacindia #foodmaniactv #foodmaniacvi
           ds #pasta #pizza #pizzaporn #foodporn #foodgasm #huffposttaste #buzzfeast #buzzfeedtasty #ins
           tafood #forkyeah #indianfood #indiagram #delhifood #delhifoodie #delhincr #delhite #delhidiar
           ies #delhigram #delhiblogger #delhi_igers #dilli #mumbai #mumbaifood #mumbaidiaries', 'post
           5': 'You'll fall in Love with the MILLION BUCKS BUBBLE WAFFLE! [][][][]\n.\nBubble waffle loa
           ded with chocolate, salted caramel ice cream, chocolate bars & edible Gold leaf! [\n] Origin
           Bubble Waffle, Carter road, Mumbail\nl by @thesaucvxplorer\n.\n.\nTag your friends!\\n.\n.\n#
           foodmaniacindia #dessertmaniacindia #dessert #desserttable #dessertporn #waffle #chocolate #f
           oodporn #huffposttaste #buzzfeast #buzzfeedtasty #instafood #mumbaifood #mumbai #mumbaiblogge
            r #mumbaikar #mumbaidiaries #mumbaistagram #mumbai_ig #mumbai_igers #bombay', 'post6': 'Pizza
           Triangle is Better than Love Triangle!! [[[[[]]]] \nThis huge Pizza is called 'LOVE TRIANGLE' an
           d can serve 3-4 people! \n\ @ardor.29 \n\ by @foodie_baniya12\n.\nTag your Squad who can fin
           ish this off! \n.\n.\n.\n#foodmaniacindia #pizza #pizzaporn #foodporn #foodgasm #huffposttast
           e #buzzfeast #buzzfeedtasty #instafood #forkyeah #f52grams #indianfood #indiagram #indiaphoto
           graphy #delhifood #delhifoodie #delhite #delhincr #delhidiaries #delhiblogger #delhigram #del
           hi_igers #dilli #gurgaon #gurgaondiaries #gurgaonfoodie', 'post7': 'What's your pick?! Butter
           by @gastronomicjournal\n.\n.\n.\n#foodmaniacindia #sliders #burger #foodporn #foodgasm #huffp
           osttaste #instafood #picoftheday #forkyeah #buzzfeast #buzzfeedtasty #mumbai #mumbaifood #mum
           baiblogger #mumbaidiaries #mumbaistagram #mumbai_ig #mumbai_igers #mumbaikar #bombay #indianf
           ood #indiagram', 'post8': 'Lunch scenes like these are ♥! □□□□□\nLavish Veg Thali loaded wi
           th delicacies at Nona's Kitchen, Gurgaon \[ \] \n\[ \] by \[ \@khau_gali_foodie \n. \nTag your Thali Squad! \]
           \n.\n.\n.\n#foodmaniacindia #thali #indianfood #indiagram #indiapictures #storiesofindia #ind
           iancuisine #delhifood #delhifoodie #delhite #delhincr #delhidiaries #delhiblogger #delhigram
           #delhifoodblogger #delhi_igers #dilli #gurgaon #gurgaonfoodie #gurgaonblogger #wearegurgaon #
           foodporn #foodphotography #instafood #huffposttaste #buzzfeast #buzzfeedtasty', 'post9': 'Cri
           spy 'Aloo Tikki' for evening snack??00000\nTag all Chaat Lovers00\n0Haldiram's, Lajpat Nag
           ar, Delhil\n.\n.\n.\n.\n.\nl @foodmaniacindia\n#foodmaniactv #foodmaniacindia #foodmaniacvids
           #delhi #delhifood #delhifoodie #delhifoodies #delhigram #delhidiaries #dilli #delhistreetfood
           #delhibloggers #delhiblogger #delhifoodblogger #delhite #indianfood #incredibleindia #indiagr
           am #indiatravel #indianstreetfood', 'post10': 'This looks insanely Delicious!! [][][] \nSuper
           Cheesy Pesto Blooming Bread from Chocolate Heaven, Vile Parle (W), Mumbail \n \n by @vegguruind
           ia\n.\n.\nTag your Squad!\\\n.\n.\n.\n#foodmaniacindia #cheeseporn #garlicbread #foodporn #foo
           dgasm #huffposttaste #buzzfeast #buzzfeedtasty #instafood #forkyeah #f52grams #mumbaifood #mu
           mbai #mumbaidiaries #mumbaiblogger #mumbaifoodblogger #mumbaikar #mumbai_ig #mumbai_igers #mu
           mbaistagram #bombay #indianfood #indiagram #indiaclicks'}, 'foodiesince96': {'post1': 'Saturd
           ay brunching done ∉ right □□□□□ Absolutely loved the #15andfabulous celebration □ @olivedelh
           i. Yum Tiramisu also the dessert [] platter was best [] .\n.\n\n#Foodiesince96 [] [] .\n.\n.\nYouT
           ube - MEHAK DHAWAN\nSnapchat - Foodiesince96', 'post2': 'Saturday's are for cheese pull and P
           izza 🛘 .\n.\n\Spezia bistro, Gtb .\n.\n.\n\n#Foodiesince96 🖺 .\n.\n.\nYouTube - MEHAK DHA
           WAN\nSnapchat - Foodiesince96', 'post3': 'Good morning fam [] Breakfast spread be like [] \u20
           Od♀ Coffee ➡ Chicken Greek Sandwich 🛛 , Salad 🖟 Pesto pasta 🖟 .\n.\n🖟 Coffee Bond
           \n.\n.\n.\n\n#Foodiesince96 [] .\n.\n.\nYouTube - MEHAK DHAWAN\nSnapchat - Foodiesince96',
            'post4': 'Craving for some Mughlai dinner tonight 💵 Biryani, Kebab with ulte tawa ka parath
           a [][][]\n.\n.\n.\n\n#Foodiesince96 [] .\n.\n.\nYouTube - MEHAK DHAWAN\nSnapchat - Foodiesinc
           e96', 'post5': 'Pasta 🛘 Sandwich 🛳, Fries և and cool chillers 🖺 🛳 \n.\n.\n\\n\\n
           #Foodiesince96 [] .\n.\n.\nYouTube - MEHAK DHAWAN\nSnapchat - Foodiesince96', 'post6': 'Happy
           Friday Folks [][][]What are your Weekend plans ? I'm planning to visit one of my favourite rest
           aurant La Piazza [][][] it's the best Italian restaurant in town !!! .\n.\nTag someone who woul
           d love to go to this place <code>[][]\n.\n.\n/n#Foodiesince96 [][] .\n.\n.\nYouTube - MEHAK DHAWAN\nSn | .\n.\n.\nYouTube | .\n.\nXouTube | .\n.\nXouTube | .\n.\nXouTube | .\n.\nXouTube | .\nXouTube | .</code>
           apchat - Foodiesince96', 'post7': 'Obsession for Dimsum [] is for real [][[][] [] .\n.\n[]ABB
           \n.\n.\n.\n.\n#Foodiesince96 [] .\n.\n.\nYouTube - MEHAK DHAWAN\nSnapchat - Foodiesince96',
            'post8': 'Tag someone with whom you want to go on a Pizza 🛭 date with 💵 \n.\n.\n.\n#Foodiesin
           ce96 [] .\n.\n.\nYouTube - MEHAK DHAWAN\nSnapchat - Foodiesince96', 'post9': 'Good morning Fa
           m 🛮 🕽 🕽 Just realised haven't posted cupcakes 🗈 since a while nor had so for sudden Cupcake cra
           vings [][[][] \n.\n.\n] Bombakery\n.\n.\n#Foodiesince96 [][] .\n.\n.\nYouTube - MEHAK DHAWAN\nSnap
           chat - Foodiesince96', 'post10': 'Khaya hai kabhi Cheese wheel pasta [][] jaldi se dikho new v
           ideo live on YouTube search for MEHAK DHAWAN [[[[]]]\n.\n.\n.\n#Foodiesince96 [[]] .\n.\n.\nYouTub
           e - MEHAK DHAWAN\nSnapchat - Foodiesince96'}}
           (2.2) Prepare a list of all words used in all the scraped posts and calculate the frequency of
           each word.
In [18]: total_words_with_freq={}
           for i in top_5_post_content:
                val=top_5_post_content[i]
                for j in range(10):
                     post_number='post'+str(j+1)
                     new_val=val[post_number]
                     final_val=new_val.split()
                     for k in final_val:
                         if k[0]=='#':
                              ans=k[1:]
                              if ans in total_words_with_freq:
                                   total_words_with_freq[ans]+=1
                                   total_words_with_freq[ans]=1
           print(total_words_with_freq)
           {'WorstCooks': 1, 'FoodNetworkFinds': 1, 'TheKitchen,': 1, 'TasteTest,': 1, 'DDD': 2, 'a': 1,
            'DiscoverDelhi': 1, 'OfferAlert': 1, 'FarziCafe': 1, 'ManyGuppyReturns': 1, 'GuppyGang': 1,
           'NewInTown': 1, 'theheritagefood': 1, 'orientheritage': 1, 'PoojaDhingra': 1, 'TalkChef': 1,
           'TalkHiddenGems': 1, 'GungThePalace': 1, 'foodmaniacindia': 10, 'udaipur': 1, 'udaipurtimes':
           1, 'udaipurblog': 1, 'udaipurdiaries': 1, 'rajasthan': 1, 'rajasthani': 1, 'rajasthanifood':
           1, 'rajasthantourism': 1, 'indianfood': 9, 'indiagram': 8, 'indiatravel': 2, 'indiapictures':
           2, 'incredibleindia': 2, 'indiatravelgram': 1, 'foodiesofinstagram': 1, 'storiesofindia': 3,
           'fries': 1, 'friyay': 1, 'friyayvibes': 1, 'friday': 1, 'foodporn': 8, 'huffposttaste': 8, 'b
           uzzfeast': 8, 'buzzfeedtasty': 7, 'forkyeah': 5, 'f52grams': 3, 'delhifood': 5, 'delhifoodi
           e': 5, 'delhite': 5, 'delhincr': 4, 'delhiblogger': 5, 'delhidiaries': 5, 'delhigram': 5, 'de
           lhi_igers': 4, 'delhilove': 1, 'dilli': 5, 'indiaclicks': 2, 'sandwich': 1, 'cheeseporn': 2,
           'foodgasm': 5, 'instafood': 7, 'buzzfeedfood': 1, 'streetsofindia': 1, 'streetsofmumbai': 1,
           'mumbai': 5, 'mumbaifood': 5, 'mumbairains': 1, 'mumbaidiaries': 5, 'mumbaiblogger': 4, 'mumb
           aistagram': 4, 'mumbaikar': 4, 'mumbai_igers': 4, 'mumbai_ig': 4, 'bombay': 4, 'foodmaniact
           v': 2, 'foodmaniacvids': 2, 'pasta': 1, 'pizza': 2, 'pizzaporn': 2, 'dessertmaniacindia': 1,
           'dessert': 1, 'desserttable': 1, 'dessertporn': 1, 'waffle': 1, 'chocolate': 1, 'indiaphotogr
           aphy': 1, 'gurgaon': 2, 'gurgaondiaries': 1, 'gurgaonfoodie': 2, 'sliders': 1, 'burger': 1,
            'picoftheday': 1, 'thali': 1, 'indiancuisine': 1, 'delhifoodblogger': 2, 'gurgaonblogger': 1,
            'wearegurgaon': 1, 'foodphotography': 1, 'delhi': 1, 'delhifoodies': 1, 'delhistreetfood': 1,
           'delhibloggers': 1, 'indianstreetfood': 1, 'garlicbread': 1, 'mumbaifoodblogger': 1, '15andfa
           bulous': 1, 'Foodiesince96': 10}
           (2.3) Create a csv file with two columns: the word and its frequency
In [19]: import numpy as np
           import pandas as pd
           li_2d=[]
           for i in total_words_with_freq:
                small=[]
                small.append(i)
                small.append(total_words_with_freq[i])
                li_2d.append(small)
           final_data=np.array(li_2d)
           dataset=pd.DataFrame({'Word':final_data[:,0],'Frequency':final_data[:,1]})
           dataset.to_csv('New_Word_Frequency.csv',index=False)
           print(dataset)
                                  Word Frequency
                          WorstCooks
           1
                    FoodNetworkFinds
           2
                         TheKitchen,
           3
                          TasteTest,
                                   DDD
                       DiscoverDelhi
                           OfferAlert
                            FarziCafe
           9
                   ManyGuppyReturns
           10
                            GuppyGang
           11
                            NewInTown
           12
                     theheritagefood
           13
                      orientheritage
                                                  1
           14
                        PoojaDhingra
           15
                             TalkChef
           16
                      TalkHiddenGems
                                                  1
           17
                       GungThePalace
                                                  1
           18
                     foodmaniacindia
                                                10
           19
                              udaipur
                        udaipurtimes
           20
                                                  1
           21
                         udaipurblog
                                                  1
                      udaipurdiaries
           22
           23
                            rajasthan
           24
                           rajasthani
                                                  1
           25
                      rajasthanifood
           26
                    rajasthantourism
           27
                          indianfood
           28
                            indiagram
                                                  8
           29
                         indiatravel
                                                  2
           76
                                 pizza
           77
                            pizzaporn
           78
                 dessertmaniacindia
           79
                              dessert
           80
                        desserttable
                         dessertporn
           81
           82
                               waffle
           83
                            chocolate
           84
                    indiaphotography
           85
                              gurgaon
           86
                      gurgaondiaries
                       gurgaonfoodie
           87
           88
                              sliders
           89
                               burger
                                                  1
           90
                         picoftheday
                                                  1
           91
                                 thali
           92
                       indiancuisine
           93
                    delhifoodblogger
           94
                      gurgaonblogger
           95
                        wearegurgaon
           96
                     foodphotography
           97
                                 delhi
           98
                        delhifoodies
           99
                     delhistreetfood
           100
                       delhibloggers
           101
                   indianstreetfood
           102
                         garlicbread
           103
                  mumbaifoodblogger
           104
                       15andfabulous
                                                 1
           105
                       Foodiesince96
                                                10
           [106 rows x 2 columns]
           (2.4) Now, find the hashtags that were most popular among these bloggers
In [20]: | new_total_words_with_freq=sorted(total_words_with_freq, key=total_words_with_freq.get, reverse
           print('Top 5 Hashtags')
           print()
           top_5_hash=[]
           top_5_times=[]
           for i in range(5):
                top_5_hash.append(new_total_words_with_freq[i])
                top_5_times.append(total_words_with_freg[new_total_words_with_freg[i]])
           for j in range(5):
                print(top_5_hash[j], '', top_5_times[j])
           Top 5 Hashtags
           foodmaniacindia 10
           Foodiesince96 10
           indianfood 9
           indiagram 8
           foodporn 8
           (2.5) Plot a Pie Chart of the top 5 hashtags obtained and the number of times they were
           used by these bloggers in the scraped posts.
In [21]: import matplotlib.pyplot as plt
           plt.pie(top_5_times, labels=top_5_hash, autopct="%.2f%%")
           plt.show()
                Foodiesince96
                                            foodmaniacindia
                           22.22%
                                    22.22%
                       20.00%
            indianfood
                                    17.78%
                                             foodporn
                        indiagram
           3. You need to also calculate average followers: likes ratio for the obtained
           handles.
           Followers: Likes ratio is calculated as follows:
           (3.1) Find out the likes of the top 10 posts of the 5 handles obtained earlier.
In [22]: from selenium.common.exceptions import NoSuchElementException
           top_5_post_likes={}
           for t in top_5_blog:
                post_likes={}
                count=0
                data=driver.find_element_by_xpath('//input[contains(@class,"XTCLo")]')
                data.send_keys(t)
                driver.implicitly_wait(10)
                data=driver.find_element_by_xpath('//span[contains(@class, "Ap253")]')
                data.click()
                driver.implicitly_wait(10)
                for i in range(12):
                    driver.execute_script('window.scrollBy(0,2000);')
                     time.sleep(1)
                data=driver.find_elements_by_xpath('//div[contains(@class,"_9AhH0")]')
                for i in range(12):
                     driver.execute_script('window.scrollBy(0,-2000);')
                     time.sleep(1)
                driver.execute_script('window.scrollBy(0,500);')
                final=data
                driver.implicitly_wait(10)
                for p in range(len(final)):
                     if count>9:
                         break
                     try:
                         data=driver.find_elements_by_xpath('//div[contains(@class,"_9AhH0")]')
                         driver.execute_script('window.scrollBy(0,80);')
                         final=len(data)
                         driver.implicitly_wait(10)
                         data[p].click()
                         driver.implicitly_wait(10)
                         data=driver.find_element_by_xpath('//button[contains(@class, "sqdOP ")]//span')
                         val=data.text
                         if val=='':
                              new=driver.find_element_by_xpath('//button[contains(@class,"ckWGn")]')
                              new.click()
                              continue
                              new=driver.find_element_by_xpath('//button[contains(@class,"ckWGn")]')
                              new.click()
                              continue
                         val=val.replace(',',')
                         ans=int(val)
                         count=count+1
                         number='post'+str(count)
                          post_likes[number]=ans
                          new=driver.find_element_by_xpath('//button[contains(@class, "ckWGn")]')
                         new.click()
                     except NoSuchElementException:
                         new=driver.find_element_by_xpath('//button[contains(@class,"ckWGn")]')
                         new.click()
                top_5_post_likes[t]=post_likes
           print(top_5_post_likes)
           {'foodnetwork': {'post1': 14304, 'post2': 15436, 'post3': 4206, 'post4': 15090, 'post5': 1283
           8, 'post6': 12445, 'post7': 21374}, 'foodgod': {'post1': 86358}, 'foodtalkindia': {'post1': 1
           465, 'post2': 241, 'post3': 1004, 'post4': 789, 'post5': 1309, 'post6': 4788, 'post7': 1524,
           'post8': 1329, 'post9': 658, 'post10': 531}, 'foodmaniacindia': {'post1': 3912, 'post2': 428
           5, 'post3': 3202, 'post4': 3785, 'post5': 1696, 'post6': 2935, 'post7': 5181, 'post8': 3862,
            'post9': 2769, 'post10': 2843}, 'foodiesince96': {'post1': 1414, 'post2': 2819, 'post3': 283
           1, 'post4': 3692, 'post5': 5315, 'post6': 4323, 'post7': 4537, 'post8': 2805, 'post9': 2417,
           'post10': 5651}}
           (3.2) Calculate the average likes for a handle.
In [23]: average_5_handle={}
           for i in top_5_post_likes:
                count=0
                total sum=0
                dic=top_5_post_likes[i]
                for j in dic:
                     count=count+1
                     total_sum+=dic[j]
                    average=total_sum//count
                average_5_handle[i]=average
           print(average_5_handle)
           {'foodnetwork': 13670, 'foodgod': 86358, 'foodtalkindia': 1363, 'foodmaniacindia': 3447, 'foo
           diesince96': 3580}
           (3.3) Divide the average likes obtained from the number of followers of the handle to get
           the average followers: like ratio of each handle.
In [24]: | top_5_average_like=[]
           dictv={}
           top_5_followers=[]
           average_followers_likes=[]
           for i in average_5_handle:
                top_5_average_like.append(average_5_handle[i])
           for i in top 5 blog:
                data=driver.find_element_by_xpath('//input[contains(@class,"XTCLo")]')
                data.send_keys(i)
                driver.implicitly wait(10)
                data=driver.find_element_by_xpath('//span[contains(@class, "Ap253")]')
                data.click()
                driver.implicitly_wait(10)
                data=BeautifulSoup(driver.page_source, 'html.parser')
                new_data=data.a.span
                final_data=new_data['title']
                final_data=int(final_data.replace(',',',''))
                final data
```

InstaBot 2

followers

data.submit()

data.click()

from bs4 import BeautifulSoup
from selenium import webdriver

data.send_keys('instagram')

driver.implicitly_wait(10)

driver.get('https://www.google.com')
data=driver.find_element_by_name('q')

data=driver.find_element_by_class_name('ellip')

In [12]: import time

to analyse the habits of these bloggers.

1. Now your friend has followed a lot of different food bloggers, he needs

(1.1) From the list of instagram handles you obtained when you searched 'food' in previous

project. Open the first 10 handles and find the top 5 which have the highest number of

driver=webdriver.Chrome(executable_path='C:/Users/Ayanava/Desktop/chromedriver')