

NOTE:

As Instagram is a dynamic site , so it is not necessary the answers of all the questions remain same.

In [1]:

```
from bs4 import BeautifulSoup
from selenium.webdriver.support.ui import WebDriverWait
from selenium.webdriver.support import expected_conditions as EC
from selenium.webdriver.common.by import By
import time
from selenium.common.exceptions import NoSuchElementException
```

In [2]:

```
from selenium import webdriver
print("Which browser you want to use?? Enter C for Chrome and F for Firefox")
option = input()
if option == 'C' or option == 'c':
    driver = webdriver.Chrome(executable_path = "D:/Downloads/chromedriver")
if option == 'F' or option == 'f':
    driver = webdriver.Firefox(executable_path = "D:\Downloads\geckodriver")
```

Which browser you want to use?? Enter C for Chrome and F for Firefox
c

In [3]:

```
driver.get("https://www.instagram.com/")
wait = WebDriverWait(driver, 10)
element = wait.until(EC.presence_of_element_located((By.XPATH, "//button[@type = 'button']")))
```

I am logging through Facebook

In [4]:

```
def login():

    reg = driver.find_element_by_xpath("//button[@type = 'button']")
    reg.click()

    username = "9958233139"#"SAMPLEUSERNAME"
    password = "qwerty11"#"SAMPLEPASSWORD"

    driver.find_element_by_xpath("//input[@id = 'email']").send_keys(username)
    driver.find_element_by_xpath("//input[@id = 'pass']").send_keys(password)

    driver.find_element_by_xpath("//button[@id = 'loginbutton']").click()

    wait = WebDriverWait(driver, 10)
    element = wait.until(EC.presence_of_element_located((By.XPATH, "//div[@class = 'mt3GC']/button")))

    # This line is to TURN OFF NOTIFICATIONS as when I logged in it asked me to turn on or off
    notifications.
    try:
        driver.find_elements_by_xpath("//div[@class = 'mt3GC']/button")[1].click()
    except NoSuchElementException:
        pass
```

In [5]:

```
login()
```

All instagram handles shown when food is searched

In [18]:

```
def search_handle():
    driver.find_element_by_xpath("//div[@class = 'LWmhU _0aCwM']/div").click()

    driver.find_element_by_xpath("//div[@class = 'LWmhU _0aCwM']/input").send_keys("food")

    wait = WebDriverWait(driver, 10)
    element = wait.until(EC.presence_of_element_located((By.XPATH, "//div[@class = 'fuqBx']/a")))

    elements_in_food_list = driver.find_elements_by_xpath("//div[@class = 'fuqBx']/a")

    # I have removed all the hashtags and the locations that were shown in the list

    for element in elements_in_food_list:
        attr1 = BeautifulSoup(element.get_attribute('outerHTML'), 'html.parser').a.div.div['class']
        attr2 = BeautifulSoup(element.get_attribute('outerHTML'), 'html.parser').a.div.span['class']
        if 'coreSpriteLocation' in attr1:           # Remove Locations
            pass
        elif 'coreSpriteHashtag' in attr2:         # Remove Hashtags
            pass
        else:
            print(BeautifulSoup(element.get_attribute('outerHTML'), 'html.parser').find('span', {'class': "Ap253"}).text)
```

In [19]:

```
search_handle()

foodrush.recipe
foodtalkindia
foodbible
_foodasia
mumbaifoodie
the_punjabi_foodie
food
foodys
iharnoor
yourfoodlab
dilsefoodie
foodiee_love
foodwithmichel
foodie_incarnate
foodlover__13
the_dainty_deity
thefoodattacker
foodon.snu
foodbeast
redheadpassenger
foodpandaindia
raipurfoodpedia
foodgasm_jaipur
foodnetwork
meghnasfoodmagic
foodconnectindia
rajshrifood
foodofmumbai
foodandwine
ndtv_food
_my_food_cravings_
dilli_wale_foodies
delhifoodwalks
foodhallcookerystudio
dillifoodies
thatdelhifoodie
fooddrifter
food_.connoisseur
turban_foodie
dailyfoodfeed
```

```

all_yummyfood
thisisinsiderfood
khaata_rahe_mera_dil
_foodiebunch_
foodpanda_pakistan
jollyfoodfellow
bigbazaarfood
foodlty
_.haqsefoodie._
foodasmr.ir
foodnetworkasia
forkmeetsfood
livingfoodz
thehungryfriends
foodofchefs
cchannel_food
thefooddrug
the_foodie_dad
ultimatefoods28
thegutlessfoodie
cooldiyvidss
food.marine
wirallyfood
foodytops
food.hits
thekitchenmccabe
sorrentinabyfoodhall
geetasfoodielife
hulksmashfood
foodhallindia
scrollfood
foodhubster
cchannel_food_id
foodyfixation
buzzfeedfood
foodbloggerai
thefoodiespalatte
popxoyum
food.spy.ir

```

In [20]:

```
driver.find_element_by_xpath("//div[@class = 'LWmhU _0aCwM']/input").clear()
```

Search So Delhi and follow and unfollow it

In [21]:

```

def follow_unfollow_handle(handle_name):
    driver.find_element_by_xpath("//div[@class = 'LWmhU
_0aCwM']/div[contains(@class, 'coreSpriteSearchClear')]").click()

    driver.find_element_by_xpath("//div[@class = 'LWmhU _0aCwM']/div").click()

    driver.find_element_by_xpath("//div[@class = 'LWmhU _0aCwM']/input").send_keys(handle_name)

    wait = WebDriverWait(driver, 10)
    element = wait.until(EC.presence_of_element_located((By.XPATH, "//div[@class = 'fuqBx']/a")))

    driver.find_element_by_xpath("//div[@class = 'fuqBx']/a").click()

    wait = WebDriverWait(driver, 10)
    element = wait.until(EC.presence_of_element_located((By.XPATH,
"//span[contains(@class, 'vBF20')]/button"))))

    if driver.find_element_by_xpath("//span[contains(@class, 'vBF20')]/button").text == 'Following':
        print("Already Following")
    else:
        driver.find_element_by_xpath("//span[contains(@class, 'vBF20')]/button").click()

    if driver.find_element_by_xpath("//span[contains(@class, 'vBF20')]/button").text == 'Following':
        driver.find_element_by_xpath("//span[contains(@class, 'vBF20')]/button").click()

```

```

        wait = WebDriverWait(driver, 5)
        element = wait.until(EC.presence_of_element_located((By.XPATH, "//div[@class = 'mt3GC']/button")))
        driver.find_elements_by_xpath("//div[@class = 'mt3GC']/button")[0].click()
    else:
        print("Already unfollowed")

```

In [22]:

```
follow_unfollow_handle("So Delhi")
```

Already unfollowed

In [23]:

```
driver.find_element_by_xpath("//div[@class = 'LWmhU _0aCwM']/div").click()
```

Like and Unlike Top 30 posts of 'dilsefoodie'

In [24]:

```

def access_posts(handle_name):
    driver.find_element_by_xpath("//div[@class = 'LWmhU _0aCwM']/input").send_keys(handle_name)

    wait = WebDriverWait(driver, 10)
    element = wait.until(EC.presence_of_element_located((By.XPATH, "//div[@class = 'fuqBx']/a")))

    driver.find_element_by_xpath("//div[@class = 'fuqBx']/a").click()
    driver.implicitly_wait(5)

    time.sleep(3)
    driver.execute_script("window.scrollTo(0,document.body.scrollHeight);")
    time.sleep(1)

    count = 1

    for post in driver.find_elements_by_xpath("//article[@class = 'ySN3v']/div[contains(@class, 'Nnq7C')]/div"):
        post.click()
        print(count)
        if BeautifulSoup(driver.find_element_by_xpath("//span[@class = 'fr66n']/span").get_attribute('outerHTML'), 'html.parser').span['aria-label'] == 'Like':
            driver.find_element_by_xpath("//span[@class = 'fr66n']/button").click()
            print("Liked")
        else:
            print("Already Liked")
            driver.implicitly_wait(10)
            driver.find_element_by_xpath("//button[@class = 'ckWGn']").click()
            if count >= 30:
                break
            count = count + 1

    count = 1

    for post in driver.find_elements_by_xpath("//article[@class = 'ySN3v']/div[contains(@class, 'Nnq7C')]/div"):
        post.click()
        print(count)
        if BeautifulSoup(driver.find_element_by_xpath("//span[@class = 'fr66n']/span").get_attribute('outerHTML'), 'html.parser').span['aria-label'] == 'Unlike':
            driver.find_element_by_xpath("//span[@class = 'fr66n']/button").click()
            print("Unliked")
        else:
            print("Already Unliked")
            driver.implicitly_wait(10)
            driver.find_element_by_xpath("//button[@class = 'ckWGn']").click()
            if count >= 30:
                break
            count = count + 1

```

In [25]:

```
access_posts("dillsefoodie")
```

```
1
Liked
2
Liked
3
Liked
4
Liked
5
Liked
6
Liked
7
Liked
8
Liked
9
Liked
10
Liked
11
Liked
12
Liked
13
Liked
14
Liked
15
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16
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17
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18
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19
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20
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21
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22
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23
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24
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25
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26
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27
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28
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29
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30
Liked
1
Unliked
2
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3
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4
Unliked
5
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6
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7
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8
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9
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10
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11
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12
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19
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20
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21
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22
Unliked
23
Unliked
24
Unliked
25
Unliked
26
Unliked
27
Unliked
28
Unliked
29
Unliked
30
Unliked

In [26]:

```
driver.find_element_by_xpath("//div[@class = 'LWmhU _0aCwM']").click()
driver.find_element_by_xpath("//div[@class = 'LWmhU _0aCwM']/input").clear()
```

Usernamees of first 500 followers of 'foodtalkindia' and 'sodelhi'

In [27]:

```
def scroll_follower_panel():
    followers_panel = driver.find_element_by_xpath('//div[@class = "isgrP"]')

    no_of_followers = 500
    current_scroll_position, new_height= 0, 1
    i = 0
    while i < no_of_followers:
        try:
            follower = driver.find_elements_by_xpath("//div[@class = 'PZuss']/li")[i]
            print(i+1)
            print(BeautifulSoup(follower.get_attribute("innerHTML"), 'html.parser').find_all('a', {"class": ['FPmhX', 'notranslate', '_0imsa']})[0].text)
```

```

        1 = 1 + 1
    except IndexError:
        speed = 0.5
        current_scroll_position = new_height
        new_height = driver.execute_script("return arguments[0].scrollHeight",followers_panel)
        while current_scroll_position <= new_height:
            current_scroll_position += speed
            driver.execute_script("arguments[0].scrollTo(0, arguments[1]);",followers_panel,current_scroll_position)
            time.sleep(2)

```

In [28]:

```

def find_followers(handle_name):
    driver.find_element_by_xpath("//div[@class = 'LWmhU _0aCwM']/input").send_keys(handle_name)
    wait = WebDriverWait(driver, 10)
    element = wait.until(EC.presence_of_element_located((By.XPATH, "//div[@class = 'fuqBx']/a")))

    driver.find_element_by_xpath("//div[@class = 'fuqBx']/a").click()

    time.sleep(2)
    wait = WebDriverWait(driver, 30)
    element = wait.until(EC.presence_of_element_located((By.XPATH, "//li[@class = 'Y8-fY ' ]")))
    driver.find_elements_by_xpath("//li[@class = 'Y8-fY ' ]")[1].click()

    wait = WebDriverWait(driver, 10)
    element = wait.until(EC.presence_of_element_located((By.XPATH, "//div[@class = 'isgrP']")))

    print("Followers of ",handle_name,"are : ")

    scroll_follower_panel()

    driver.find_element_by_xpath("//button[@class = 'wpO6b ']").click()
    driver.find_element_by_xpath("//div[@class = 'LWmhU _0aCwM']").click()
    driver.find_element_by_xpath("//div[@class = 'LWmhU _0aCwM']/input").clear()

```

In [29]:

```

find_followers("foodtalkindia")
find_followers("So Delhi")

```

Followers of foodtalkindia are :

```

1
b_benhur_samuel
2
abhinavav9
3
parth_patel.1313
4
searchingfoods
5
artist_3_16
6
kumar_shubham_modi
7
heenanayak312
8
sworoskibeauti
9
mr.jek50
10
shank0018
11
themillennialism
12
cinnamonvelifushi
13
homedelivery_wali
14
campingbhandardaralake
15
seyjal23
16
audreyhough98
17

```

momyasmi
18
washingtonapples.india
19
vaibhav4591
20
ramosandersonsmith9
21
foodiekomal
22
dishant945
23
vala.kalpesh
24
mehakrchaudhry
25
jeddawi_foodtrip
26
tgcgurgaon
27
mansi_singh0987
28
hu_seyin8398
29
bio_junge
30
sheet_kochara_jz_07
31
surendrapenubarthi
32
divyainhere
33
sweetcastleavashi
34
raghavnandwani25
35
rejwan_khan879613
36
ritesh_untouchables
37
xxkanishkaxx
38
binal4565
39
swapna_nalla
40
payalkumar47
41
im_behrouze
42
foodhuntz07
43
deepakjain21nov97
44
rajkumar_prk
45
lean6842
46
sonamsomin
47
jaya_katyal
48
hutiya.trolls
49
amazingescapein
50
paratha.inn
51
bachchanashok
52
pathan.fateh
53
mousumidey4321
54
hospitality_by_happitality
55
hgaar980

56
rakhimbhansali0
57
asianbusinessbrokers
58
ankita1767
59
thepixietribe
60
priyasinghindia23
61
marisha.sanghvi
62
masalaroute
63
her_feelings_and_fooddates
64
jatinthakur294
65
joshimanisha011
66
badboi_reehan_1_1
67
rathore.chiki
68
soumyatapas
69
pooja.sahni_
70
dharti.sonala.10
71
devsoni__
72
sashi_009
73
kommalkaur
74
khidmat_theband
75
vivek.sen91
76
shouryacollection
77
tsumutsumu0908
78
shaistaskitchen
79
bhavik3250
80
harrysood1999
81
indore_food_feed
82
honeyhardik
83
harmeen_bindra
84
karanarora58
85
anshuman.singh.chauhan
86
bhavdeep_gohil
87
geethanjali_raghunathan
88
celltone_home_appliances
89
coox.in
90
shikha_rathore9
91
carlos_oconor
92
smr.8812
93
foodie_girl0000
94

~.
jativ32582019
95
prabha.q
96
thevegrecipebook
97
yogachaiwine_yogateawine
98
fograph
99
suknder
100
shirleya026
101
narayan.mukendhar
102
sachiti5
103
amanyaprism
104
tushar_20love
105
conutz_official
106
naazy_r
107
food.travel.log
108
brasil_coleccionadores
109
rohit_official_02dz
110
explore.beautyof.india
111
navi_getter
112
mandili_heay
113
ashu_cul_rockerr_11
114
parsia_authentic_food
115
chandeepvij
116
subhabratadan
117
poonam_kannojia
118
jitish_prasad
119
smarty_boy_00143
120
priyanka.tikam
121
j.kapoor
122
saddy105
123
zala_siddhikunvarba
124
libas_nisa2i
125
zingsnortheastkitchen
126
aditiyadav0707
127
ms.dotto14294
128
zhallpy_2007
129
lan_garden_paris
130
rubylaul
131
queen_4296
132
life with baby sia

the_witch_davy_31a
133
mr.sahil_07dz
134
kartarkaur_
135
_imaj____
136
singh526pratibha
137
vikingscareer
138
s_ayani_
139
ruhm_97
140
4645_khan
141
mpmani
142
4k_california
143
preranabhati
144
saurabh_8327
145
tanzanitebysunayana
146
foodie_nxt_door
147
kakedahotelcrpark
148
mrpaoindia
149
lotikasil
150
__the_mnphotography
151
aratifedane
152
ayanathar8671
153
jayitad
154
jaisinghaniankit
155
foodies_bybirth
156
cookingwithfaithngwenya
157
pallavi_puth143
158
beideatic
159
itsgauravghosh
160
the_epicurious_cook
161
rukhsana8335
162
sushma_chavan_27th_
163
food.talks_
164
.vasu1642.
165
samaira__singh123
166
bahrain.map
167
gninad126
168
sid.khemani
169
awesome_anuj
170
devinanayar
171

171
kinu_ravi
172
padmanabhamrestaurant
173
bidhuriaashibhadana
174
lingayatswati
175
flawsophical
176
rohittomar9679
177
jaishree_kundalia
178
sunil_sikku_sunil
179
ghosh.abhirup29
180
malanastartshere
181
preet05._
182
kellyd006
183
akankshaa_gupta
184
iam_praty_117
185
thedecorcircle
186
pseudopanda
187
hellohotbox
188
satyatrik
189
thelondoncheftrails
190
juliea1232
191
raju_fruit_wala
192
anuraag.chauhaan
193
riddhimma_khanna
194
anushenanigans
195
avq619
196
anwesha__sarker
197
asiff.10
198
hammadrajput01
199
coco_lorraine
200
_task1106
201
sanjay.khanna.758737
202
prasantnaidu
203
thephotography.in
204
dimogloua
205
tripathi08warrior
206
prachisingh2798
207
rachanachawla
208
abhisekkanwar
209
mechanically_baked

mechanically.baked
210
abhijeetonfood
211
weddingreturngifts_akva
212
rafiksabiha
213
starsproduction_sp
214
minerva_tiffins
215
presidentroyalelounge
216
allu_shalu_2397
217
ishitaabansal
218
__sk._.me__
219
yummyalldays
220
shivani.live123
221
kabirchugh
222
maryam_36_imran
223
rituvlogsabidjan
224
mangesh1689
225
vermas70871
226
rajnishsabharwal
227
wine_spirits071018
228
the__rox
229
zoya_love_allah_
230
mrgreensucculentstudio
231
machhili
232
urvi_bisht94
233
yummyintummmmy
234
vishakha1631
235
priyanka_acharjya
236
flickering.shutter
237
being.aditi.thakur
238
ashishnbi
239
sakshi.vsharma
240
stefjkikjdome
241
calcutta_tales
242
sabirkhan8248
243
groupearn
244
babylush1
245
razia_akter
246
aishikach
247
beditwinky
248

248
professnal_nagda_gaurav
249
shahed_almasri0
250
shivam9572018
251
coolest__bad_boi_addi56
252
sharmaseema89
253
atankit11
254
rajibul542
255
otfkempscorner
256
gorakhpurfoodwalks
257
the_haveli07
258
drunnatisingh_
259
rittikasangwan
260
ca_deepakgoyal
261
hemamehta1971
262
risky_attitude25
263
slurps_kitchen
264
kakedihatti_ahmedabad
265
nishashingare63
266
sonarindia2002
267
m.i.s.t.y_18
268
watch_mafiaa_jss
269
foodinfo2
270
tha_foodiekhan
271
indianoil.chefdecuisine
272
mr._rohit_babu
273
jestinalpy
274
relishhfresh
275
sumitdubey472
276
sharvan.kumar.1253
277
kangscokingcorner
278
vipinaggarwalphotography
279
monik6302
280
nikhtocco
281
tasibk
282
ankit_kumar_16
283
danush181
284
naddfeyriennafeza
285
ghpbd2020
286
naddfeyriennafeza

aswathy.sunil.5070
287
santosh.k.more85
288
yulin.esm
289
oye__sahil
290
designer__kamlesh
291
marsina.jd
292
food_lovers_bhukad
293
__mousumi__70
294
pragnakodali89
295
be_a_hungrybird
296
bthefoodlover
297
ankitgujjar0651
298
bombayremix
299
vidushi_vrma
300
mehta_amruta
301
musicwithoutnerves
302
shreyaj88
303
russelling.it.up
304
dpkasoni
305
arr_baz_
306
aban_ayan
307
fudstatic
308
mayerah67
309
foodie_crush26
310
gauri_gite
311
simple_sonika
312
utopia_99911182
313
bigbanyanwines
314
saloni.rastogi
315
rohinipatil2332
316
udayan_mishra
317
tejas_khauchi_gadi
318
patange.jyoti
319
riyathakkar1905
320
thats_foodieashu
321
_hi_foodie
322
palkajal7
323
foodista_saga
324
nitudey5
325

325
deboritasinghroy
326
pawanagarwal_fssai
327
sankalp4u
328
ranjitkauruppall
329
shine.xonex
330
agnihotrimonica
331
mann_ivaana_gupta
332
udaichawla
333
monikamistri
334
iambrahmanking
335
chinmaya.narasimiah
336
varanasiblog
337
thebhukkadsway
338
jaryalsahab
339
muskaanarora15
340
shivambhasin10
341
knilshah
342
lavina1504
343
foodwalksindia
344
bhukkhadonthewheels
345
_mohd_2929
346
theloungepv
347
ksamah.official
348
madras_dosa_point
349
shaliniverma06
350
er_shivammandowara
351
_kisu_9007
352
rk_47____
353
parvintomer
354
komal_goswami21
355
thegroovegurugram
356
food.foodo
357
hebbuliprakash_dk
358
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strangerwithafork
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manikantlove
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foodforlife799
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the_foodie_bong_girl
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yionel_pessi

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thefoodiefied
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anju_khurana_
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ram_siingh
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shuaiba_javed
Followers of So Delhi are :
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lost_guy_journey
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thakur_gaurav_singh_rajput
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mythililol
4
kalpanaimagine
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jaspreeeeeettt
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vishal.jain21
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rikk_rizzu
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mandviii
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rajputnilesh264
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rajpoot4503
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sahyadsingh
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chandak_renu
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adnannzz
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arishagarg
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jainprakshal
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vanshika_nigam06
496
ayush_88_99
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sunnyseth3727
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foodyniks
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ajit6569kumar
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dugardivya

To find the followers that follow "foodtalkindia" and not me I found the mutual followers between the page and me. Then from my followers list I checked if some of the mutual followers exist in my followers also then they will be the required followers.

If no mutual followers exist between the page and me then there are no such required followers

In [31]:

```
def mutual_follower_exist(handle_name):
    driver.find_element_by_xpath("//div[@class = 'LWmhU _0aCwM']").click()
    driver.find_element_by_xpath("//div[@class = 'LWmhU _0aCwM']/input").clear()

    driver.find_element_by_xpath("//div[@class = 'LWmhU _0aCwM']/input").send_keys(handle_name)

    wait = WebDriverWait(driver, 10)
    element = wait.until(EC.presence_of_element_located((By.XPATH, "//div[@class = 'fuqBx']/a")))

    driver.find_element_by_xpath("//div[@class = 'fuqBx']/a").click()

    time.sleep(2)

    ## Check if some mutual followers are there between the page and me
    try:
        driver.find_element_by_xpath("//a[@class = '_32eiM']").click()
        driver.find_element_by_xpath("//a[contains(@class, 'sqdOP')]").click()

        followers_panel = driver.find_element_by_xpath('//div[@class = "isgrP"]')
```

```

    ## Find mutual followers
    mutual_followers = []
    i = 0
    current_scroll_position, new_height= 0, 1
    while driver.find_elements_by_xpath("//button[contains(@class, 'sqdOP')])[i].text == 'Following':
        try:
            follower = driver.find_elements_by_xpath("//div[@class = 'PZuss']/li")[i]
            mutual_followers.append(BeautifulSoup(follower.get_attribute("innerHTML"), 'html.parser').find_all('a', {"class": ['FPmhX', 'notranslate', '_0imsa']})[0].text)
            i = i + 1
        except IndexError:
            speed = 0.5
            current_scroll_position = new_height
            new_height = driver.execute_script("return arguments[0].scrollHeight", followers_panel)
            while current_scroll_position <= new_height:
                current_scroll_position += speed
                driver.execute_script("arguments[0].scrollTo(0, arguments[1]);", followers_panel, current_scroll_position)
                time.sleep(2)

            driver.find_element_by_xpath("//button[@class = 'wp06b']").click()
            driver.find_elements_by_xpath("//div[@class = '_47KiJ']/div")[2].click()
            wait = WebDriverWait(driver, 10)
            element = wait.until(EC.presence_of_element_located((By.XPATH, "//ul[@class = 'k9GMp']/li")))
            driver.find_elements_by_xpath("//ul[@class = 'k9GMp']/li")[1].click()

            followers_panel = driver.find_element_by_xpath('//div[@class = "isgrP"]')
            no_of_followers = int(BeautifulSoup(driver.find_elements_by_xpath("//ul[@class = 'k9GMp']/li")[1].get_attribute("innerHTML"), 'html.parser').a.text.strip(" followers"))

    ## Find my followers
    my_followers = []
    i = 0
    current_scroll_position, new_height= 0, 1
    while i < no_of_followers:
        try:
            follower = driver.find_elements_by_xpath("//div[@class = 'PZuss']/li")[i]
            my_followers.append(BeautifulSoup(follower.get_attribute("innerHTML"), 'html.parser').find_all('a', {"class": ['FPmhX', 'notranslate', '_0imsa']})[0].text)
            i = i + 1
        except IndexError:
            speed = 0.5
            current_scroll_position = new_height
            new_height = driver.execute_script("return arguments[0].scrollHeight", followers_panel)
            while current_scroll_position <= new_height:
                current_scroll_position += speed
                driver.execute_script("arguments[0].scrollTo(0, arguments[1]);", followers_panel, current_scroll_position)
                time.sleep(2)

    # Checking if some mutual followers exist in my followers list also
    final_ans = []

    for follower in mutual_followers:
        if follower in my_followers:
            final_ans.append(follower)

    for follower in final_ans:
        print(follower)

    except NoSuchElementException:
        print("No such followers are there")

    try:
        driver.find_element_by_xpath("//button[@class = 'wp06b']").click()
    except NoSuchElementException:
        pass

```

In [32]:

```
mutual_follower_exist("foodtalkindia")
```

No such followers are there

Check the Story of Coding Ninjas

To check if there is some story or not I found a class "carul" which was present if there was some story.

To check if the user has seen the story , I checked the width and height of the story icon , there was a difference of 2 units if the user has seen the story

In [33]:

```
def check_story(handle_name):
    driver.find_element_by_xpath("//div[@class = 'LWmhU _0aCwM']").click()
    driver.find_element_by_xpath("//div[@class = 'LWmhU _0aCwM']/input").clear()

    driver.find_element_by_xpath("//div[@class = 'LWmhU _0aCwM']/input").send_keys(handle_name)

    wait = WebDriverWait(driver, 10)
    element = wait.until(EC.presence_of_element_located((By.XPATH, "//div[@class = 'fuqBx']/a")))

    driver.find_element_by_xpath("//div[@class = 'fuqBx']/a").click()
    time.sleep(3)

    Height = BeautifulSoup(driver.find_element_by_xpath("//div[@class = 'XjzKX']//canvas").get_attribute("outerHTML"), 'html.parser').canvas['height']
    Width = BeautifulSoup(driver.find_element_by_xpath("//div[@class = 'XjzKX']//canvas").get_attribute("outerHTML"), 'html.parser').canvas['width']

    if int(Height) == 208 and int(Width) == 208:
        print("Already Viewed")
    if int(Height) == 210 and int(Width) == 210:
        driver.find_element_by_xpath("//div[@class = 'XjzKX']/div").click()

        try :
            driver.find_element_by_xpath("//section[@contains(class, 'carul')]")
        except NoSuchElementException:
            print("User has no story")
```

In [34]:

```
check_story("coding.ninjas")
```

User has no story

In [21]:

```
def logout():
    wait = WebDriverWait(driver, 10)
    element = wait.until(EC.presence_of_element_located((By.XPATH, "//div[@class = 'XrOey']")))
    driver.find_elements_by_xpath("//div[@class = 'XrOey']")[2].click()

    wait = WebDriverWait(driver, 10)
    element = wait.until(EC.presence_of_element_located((By.XPATH, "//button[@class = 'dCJp8 afkep']")))
    driver.find_element_by_xpath("//button[@class = 'dCJp8 afkep']").click()

    wait = WebDriverWait(driver, 10)
    element = wait.until(EC.presence_of_element_located((By.XPATH, "//button[@class = 'aO0lW HoLwm '']")))
    driver.find_elements_by_xpath("//button[@class = 'aO0lW HoLwm '']")[8].click()
```

