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BSCS 7A Data Science

Fall 2023 Assignment # 1 Web Scrapping

Website

For this assignment you have to collect the data of all faculty members from the following website.

<http://lhr.nu.edu.pk/faculty/> (<http://lhr.nu.edu.pk/faculty/>).

<http://isb.nu.edu.pk/Faculty/allfaculty/> (<http://isb.nu.edu.pk/Faculty/allfaculty/>).

<https://khi.nu.edu.pk/> (<https://khi.nu.edu.pk/>).

```
In [1]: urls=[ 'https://lhr.nu.edu.pk/faculty/', 'http://isb.nu.edu.pk/Faculty/allfaculty/', 'https://khi.nu.edu.pk/' ]
```

Step 1:

You have to collect the following details of the faculty members for each department and for each campus.

- > ID (Integer)
- > Name (String)
- > Designation (String)
- > HEC Approved PHD Supervisor (Bool)
- > Highest Education (String)
- > Email (Email)
- > Department (String)
- > Extension (Integer)
- > ImageURL (URL)

Collect the data of the Lahore campus faculty members in the above format and transform it into a data frame. Save the data frame as a .csv file named lhr.csv. Do the same for Islamabad, Karachi and save the files as isb.csv and khi.csv respectively.

```
In [2]: import requests
        from bs4 import BeautifulSoup
        import pandas as pd
        from selenium import webdriver
```

```
import time
print('All Required Libraries Imported Successfully!')
```

All Required Libraries Imported Successfully!

~ LAHORE CAMPUS ~

```
In [3]: requestLHR=requests.get(urls[0])
if(requestLHR.status_code==200):
    print(requestLHR,'\nHTTP GET Request to Lahore Campus Website Web Server Successful!\n')
    soupLHR=BeautifulSoup(requestLHR.content,'html.parser') #Parsing Data Retrieved
    print(soupLHR.prettify()[0:100])
else:
    print(requestLHR,'\nHTTP GET Request to Lahore Campus Website Web Server Unsuccessful!\n')
```

<Response [200]>

HTTP GET Request to Lahore Campus Website Web Server Successful!

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="utf-8"/>

<meta content="width=device-wid

```
In [4]: # First Writing Code to scrap details of a single Faculty Member of Lahore Campus
LHRSinglefacultyMember=soupLHR.find('div',class_='facultyCard')
print(LHRSinglefacultyMember)

<div class="card facultyCard card-br-0 ml-0 mr-0 pb-0">
<div class="facultyImage">

</div>
<div class="card-body pr-0 pl-0 pb-0">
<h5 class="text-center">Dr. Kashif Zafar</h5>
<p class="small text-center font-italic">Professor & HOD

        <br> HEC Approved PhD Supervisor

        <br></p>
<p class="mb-0 text-center">kashif.zafar@nu.edu.pk</p>
<!-- <p class="mt-0 small text-center">ext no: 221</p> -->
<a class="faculty-link" href="/fsc/facultyProfile/1238"></a>
</div>
</div>
```

```
In [5]: print('ID: ',int(LHRSinglefacultyMember.find('a',class_='faculty-link')['href'].split('/')[1]))
print('Name:',str(LHRSinglefacultyMember.find('h5',class_='text-center').text))
print('Designation:',str(LHRSinglefacultyMember.find('p',class_='small text-center font-italic').text.split(
('\n'))[0]))
print('HEC Approved?',bool('HEC Approved PhD Supervisor' in LHRSinglefacultyMember.find('p',class_='small tex
t-center font-italic').text))
print('Email: ',str(LHRSinglefacultyMember.find('p',class_='mb-0 text-center').text))
print('Image URL:',urls[0].split('/f')[0]+LHRSinglefacultyMember.find('img',class_='card-img-top')['src'])
```

```
ID: 1238
Name: Dr. Kashif Zafar
Designation: Professor & HOD
HEC Approved? True
Email: kashif.zafar@nu.edu.pk
Image URL: https://lhr.nu.edu.pk/media/Faculty/02_-_Dr._Kashif_Zafar_Prof__HoD_CS.png
```

```
In [6]: # Scrapping Single Faculty Member's Profile Link
LHRSingleMemberProfileLink=urls[0].split('/f')[0]+LHRSinglefacultyMember.find('a',class_='faculty-link')['href']
print('Profile Link: ',LHRSingleMemberProfileLink)
```

Profile Link: <https://lhr.nu.edu.pk/fsc/facultyProfile/1238>

```
In [7]: # Making request to Single Faculty Member's Profile page to scrap further information i.e Highest Education,
        Extension & Department
requestLHRProfile=requests.get(LHRSingleMemberProfileLink)

if(requestLHRProfile.status_code==200):
    print(requestLHRProfile,'\nHTTP GET Request to Lahore Campus Faculty Member Profile Website Web Server Successful!\n')
    soupLHRSingleProfile=BeautifulSoup(requestLHRProfile.content,'html.parser') #Parsing Data Retrieved
    print(soupLHRSingleProfile.prettify()[0:100])
else:
    print(requestLHRProfile,'\nHTTP GET Request to Lahore Campus Faculty Member Profile Website Web Server Unsuccessful!\n')
```

<Response [200]>

HTTP GET Request to Lahore Campus Faculty Member Profile Website Web Server Successful!

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8"/>
  <meta content="width=device-wid
```

```
In [8]: print('Highest Education:',str(soupLHRSingleProfile.find(class_='col-lg-8 col-md-6 col-sm-12 text-justify')).
        split('<li>')[1].split('<')[0])
        print('Extension: ',int(soupLHRSingleProfile.find('p',class_='mt-0 text-center').find('span').text.split(':')[1]))
        print('Department:',str(soupLHRSingleProfile.find('a',class_='white ml-2 mr-2').text))
```

Highest Education: Ph.D(Computer Science), NUCES, Islamabad, Pakistan (2010)

Extension: 221

Department: FSC

```

In [10]: # Now scraping info for all faculty members of Lahore Campus [General Code]
LHRfacultyMembersAll=soupLHR.findAll('div',class_='facultyCard')

Id=[]
name=[]
designation=[]
hecApprovedPhdSupervisor=[]
highestEducation=[]
email=[]
department=[]
extension=[]
profileLink=[]
imageUrl=[]

i=0

for facultyMember in LHRfacultyMembersAll:

    name.append(str(facultyMember.find('h5',class_='text-center').text))
    designation.append(str(facultyMember.find('p',class_='small text-center font-italic').text.split('\n')
[0]))
    hecApprovedPhdSupervisor.append(bool('HEC Approved PhD Supervisor' in facultyMember.find('p',class_='small
1 text-center font-italic').text))
    email.append(str(facultyMember.find('p',class_='mb-0 text-center').text))
    imageUrl.append(urls[0].split('/f')[0]+facultyMember.find('img',class_='card-img-top')['src'])

    # Scraping Faculty Member's Profile Link
    profileLink.append(urls[0].split('/f')[0]+facultyMember.find('a',class_='faculty-link')['href'])

    # Making request to Faculty Member's Profile page to scrap further information i.e Highest Education, Ext
ension & Department
    request2=requests.get(profileLink[i])
    if(request2.status_code!=200):
        print(request2,'Request to Faculty Member Profile Unsuccessful!',profileLink[i])
        break

    soupProfile=BeautifulSoup(request2.content,'html.parser')
    soupProfile.prettify()[0:1000]
    try: #Incase Education Details Not Available
        highestEducation.append(str(soupProfile.find(class_='col-lg-8 col-md-6 col-sm-12 text-justify')).spli
t('<li>')[1].split('<')[0])
    except:

```

```

        highestEducation.append('Not Available')

    try: #Incase Faculty Member Does not have an extension
        extension.append(int(soupProfile.find('p',class_='mt-0 text-center').find('span').text.split(':')[1]))
    except:
        extension.append(-1)

    department.append(str(soupProfile.find('a',class_='white ml-2 mr-2').text))

    try: #Incase No int profile ID Available
        Id.append(int(facultyMember.find('a',class_='faculty-link')['href'].split('/')[1]))
    except:
        Id.append(-1)
        print('No ID Found of',name[i])

    if((i+1)%10==0):#Tells number of Profiles Extracted after Every 10 Profiles Extracted
        print('Extracted information from',i+1,'Faculty Members profiles!')
        time.sleep(2)
    i=i+1

print(i,'Faculty Members Found!')
```

```

Extracted information from 10 Faculty Members profiles!
Extracted information from 20 Faculty Members profiles!
Extracted information from 30 Faculty Members profiles!
Extracted information from 40 Faculty Members profiles!
Extracted information from 50 Faculty Members profiles!
Extracted information from 60 Faculty Members profiles!
Extracted information from 70 Faculty Members profiles!
Extracted information from 80 Faculty Members profiles!
Extracted information from 90 Faculty Members profiles!
Extracted information from 100 Faculty Members profiles!
Extracted information from 110 Faculty Members profiles!
Extracted information from 120 Faculty Members profiles!
Extracted information from 130 Faculty Members profiles!
Extracted information from 140 Faculty Members profiles!
Extracted information from 150 Faculty Members profiles!
Extracted information from 160 Faculty Members profiles!
Extracted information from 170 Faculty Members profiles!
Extracted information from 180 Faculty Members profiles!
No ID Found of Mr. Hafiz Umair Gulzar
184 Faculty Members Found!
```

```
In [11]: facultyLahoreDF=pd.DataFrame({'ID':Id,'Name':name,'Designation':designation,
                                     'HEC Approved PhD Supervisor':hecApprovedPhdSupervisor,
                                     'Highest Education':highestEducation,
                                     'Email':email,
                                     'Deaprtment':department,'Extension':extension,'Profile Link':profileLink,'Image U
                                     RL':imageUrl})
```

```
In [12]: facultyLahoreDF.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 184 entries, 0 to 183
Data columns (total 10 columns):
#   Column                                Non-Null Count  Dtype
---  -
0   ID                                    184 non-null    int64
1   Name                                184 non-null    object
2   Designation                          184 non-null    object
3   HEC Approved PhD Supervisor          184 non-null    bool
4   Highest Education                    184 non-null    object
5   Email                                184 non-null    object
6   Deaprtment                           184 non-null    object
7   Extension                            184 non-null    int64
8   Profile Link                         184 non-null    object
9   Image URL                            184 non-null    object
dtypes: bool(1), int64(2), object(7)
memory usage: 13.2+ KB
```


In [13]: `facultyLahoreDF.sample(5)`

Out[13]:

	ID	Name	Designation	HEC Approved PhD Supervisor	Highest Education	Email	Deaprtment	Extension	
136	9495	Dr. Zia Khan	Assistant Professor	True	Ph.D(Management Sciences), Asian Institute o...	zia.khan@nu.edu.pk	FSM	252	https://lhr.nu.edu.pk
99	5231	Mr. Syed Muhammad Ismail	Lecturer	False	M.Sc(Power Electric Machines & Drives), ...	muhammad.ismail@nu.edu.pk	EE	-1	https://lhr.nu.edu.pk
25	3720	Mr. Aamir Raheem	Assistant Professor	False	M.S(Computer Science), NUCES,Lahore, Pakista...	aamir.raheem@nu.edu.pk	FSC	257	https://lhr.nu.edu.pk
49	6277	Ms. Maham Naeem	Lecturer	False	MS (CS), NUCES, Lahore (2020)	maham.naeem@nu.edu.pk	FSC	-1	https://lhr.nu.edu.pk
53	6415	Mr. Mubashar Hussain	Lecturer	False	MS(CS), COMSATS, Lahore(2021)	mubashar.hussain@nu.edu.pk	FSC	-1	https://lhr.nu.edu.pk

In [14]: `facultyLahoreDF.to_csv('lhr.csv',index=False)`

~ Islamabad Campus ~

```
In [15]: driver=webdriver.Chrome()
driver.get(urls[1])
time.sleep(10) #Wait for whole content to load
ISLHTML=driver.page_source
driver.quit()
soupISB=BeautifulSoup(ISLHTML,'html.parser')
print(soupISB.prettify()[0:100])
```

```
<html lang="en">
<head>
  <meta charset="utf-8"/>
  <meta content="IE=edge" http-equiv="X-UA-Compat
```

```
In [16]: # First Writing Code to scrap details of a single Faculty Member of Islamabad Campus
ISLSinglefacultyMember=soupISB.find('div',class_='our-team')
print(ISLSinglefacultyMember)
```

```
<div class="our-team"><div class="pic"></div><div class="team-content"><h3 class="title">Waseem Shahzad</h3><span class="post">Director & Professor</span> <p>waseem.shahzad@nu.edu.pk</p><br/></div><ul class="social"><li><a href="/Faculty/Details/4553" style="font-style: italic;" target="_blank">More...</a></li></ul></div>
```

```
In [17]: print('ID: ',int(ISLSinglefacultyMember.find('img')['src'].split('/')[1].split('.')[0]))
print('Name:',str(ISLSinglefacultyMember.find('h3',class_='title').text))
print('Designation:',str(ISLSinglefacultyMember.find('span',class_='post').text))
print('Email: ',str(ISLSinglefacultyMember.find('p').text))
print('Image URL:',urls[1].split('/F')[0]+ISLSinglefacultyMember.find('img')['src'])
print('Profile Link: ',urls[1].split('/F')[0]+ISLSinglefacultyMember.find('a')['href'])
```

```
ID: 4553
Name: Waseem Shahzad
Designation: Director & Professor
Email: waseem.shahzad@nu.edu.pk
Image URL: http://isb.nu.edu.pk/Images/Profile/CS/4553.jpg
Profile Link: http://isb.nu.edu.pk/Faculty/Details/4553
```

```
In [18]: # Making request to Faculty Member's Profile page to scrap further information i.e Highest Education, Extension & Department
requestISLProfile=urls[1].split('/F')[0]+ISLSinglefacultyMember.find('a')['href']
driver=webdriver.Chrome()
driver.get(requestISLProfile)
time.sleep(2) #Wait for whole content to load
ISLProfileSingleHtml=driver.page_source
driver.quit()

soupISLProfileSingle=BeautifulSoup(ISLProfileSingleHtml,'html.parser')
print(soupISLProfileSingle.prettify()[0:100])
```

```
<html lang="en">
<head>
  <meta charset="utf-8"/>
  <meta content="IE=edge" http-equiv="X-UA-Compat
```

```
In [19]: print('HEC Approved?',bool('HEC Approved PhD Supervisor' in soupISLProfileSingle.find('label',style='font-size:9pt;').text))
print('Extension: ',int(''.join(map(str,soupISLProfileSingle.findAll('p',style='line-height: 20px;margin-bottom: 0px;'))).split('class="fa fa-phone">')[1].split(':')[1].split('</span>')[0]))
print('Department:',str(soupISLProfileSingle.find('li',class_='breadcrumb-item active').text.strip()))
print('Highest Education:',str(soupISLProfileSingle.findAll('li',style='list-style-type:none;')[0].find('label').text))
```

```
HEC Approved? True
Extension: 101
Department: Computer Science
Highest Education: Ph.D (Computer Science) NUCES, (2010)
```

```
In [20]: # Now scraping info for all faculty members of Islamabad Campus [General Code]

Id=[]
name=[]
designation=[]
email=[]
profileLink=[]
imageUrl=[]

i=0
facultiesAllISL=soupISB.findAll('div',class_='our-team')

for facultyMember in facultiesAllISL:
    try:
        Id.append(int(facultyMember.find('img')['src'].split('/')[1].split('.')[0]))
    except:
        Id.append(-1)
    name.append(str(facultyMember.find('h3',class_='title').text))
    designation.append(str(facultyMember.find('span',class_='post').text))
    email.append(str(facultyMember.find('p').text))
    imageUrl.append(urls[1].split('/F')[0]+facultyMember.find('img')['src'])
    profileLink.append(urls[1].split('/F')[0]+facultyMember.find('a')['href'])

    i=i+1

print(i,'Faculty Members BASIC Information Found!')
```

204 Faculty Members BASIC Information Found!

```

In [21]: # Scrapping Additional Information from Faculty Member's Profile Page
extension=[]
department=[]
hecApprovedPhdSupervisor=[]
highestEducation=[]
i=0
driver=webdriver.Chrome()

for profLinks in profileLink:
    # Making request to Faculty Member's Profile page to scrap further information i.e Highest Education, Extension & Department
    driver.get(profLinks)
    time.sleep(2) #Wait for whole page to load
    requ2=driver.page_source
    soup2B=BeautifulSoup(requ2, 'html.parser')

    try:
        hecApprovedPhdSupervisor.append(bool('HEC Approved PhD Supervisor' in soup2B.find('label', style='font-size:9pt;').text))
    except:
        hecApprovedPhdSupervisor.append(False)

    try:
        extension.append(int(''.join(map(str, soup2B.findAll('p', style='line-height: 20px;margin-bottom: 0px;'))).split('class="fa fa-phone">')[1].split(':')[1].split('</span')[0]))
    except:
        extension.append(-1)

    try:
        highestEducation.append(str(soup2B.findAll('li', style='list-style-type:none;')[0].find('label').text))
    except:
        highestEducation.append('Not Available')

    try:
        department.append(str(soup2B.find('li', class_='breadcrumb-item active').text.strip()))
    except:
        department.append('Not Available')

    i=i+1
    if(i%10==0): #Tells How Much Scrapped after every 10 profiles visited
        print('Extracted Information from', i, 'Faculty Member Profiles!')

```

```
driver.quit()
print(i, 'Faculty Members FULL Information Found!')
```

```
Extracted Information from 10 Faculty Member Profiles!
Extracted Information from 20 Faculty Member Profiles!
Extracted Information from 30 Faculty Member Profiles!
Extracted Information from 40 Faculty Member Profiles!
Extracted Information from 50 Faculty Member Profiles!
Extracted Information from 60 Faculty Member Profiles!
Extracted Information from 70 Faculty Member Profiles!
Extracted Information from 80 Faculty Member Profiles!
Extracted Information from 90 Faculty Member Profiles!
Extracted Information from 100 Faculty Member Profiles!
Extracted Information from 110 Faculty Member Profiles!
Extracted Information from 120 Faculty Member Profiles!
Extracted Information from 130 Faculty Member Profiles!
Extracted Information from 140 Faculty Member Profiles!
Extracted Information from 150 Faculty Member Profiles!
Extracted Information from 160 Faculty Member Profiles!
Extracted Information from 170 Faculty Member Profiles!
Extracted Information from 180 Faculty Member Profiles!
Extracted Information from 190 Faculty Member Profiles!
Extracted Information from 200 Faculty Member Profiles!
204 Faculty Members FULL Information Found!
```

```
In [22]: facultyIslamabadDF=pd.DataFrame({'ID':Id, 'Name':name, 'Designation':designation,
                                           'HEC Approved PhD Supervisor':hecApprovedPhdSupervisor,
                                           'Highest Education':highestEducation,
                                           'Email':email,
                                           'Department':department, 'Extension':extension,
                                           'Profile Link':profileLink, 'Image URL':imageUrl})
```

In [23]: facultyIslamabadDF.info()

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 204 entries, 0 to 203
Data columns (total 10 columns):
#   Column                                Non-Null Count  Dtype
---  -
0   ID                                     204 non-null    int64
1   Name                                  204 non-null    object
2   Designation                           204 non-null    object
3   HEC Approved PhD Supervisor           204 non-null    bool
4   Highest Education                     204 non-null    object
5   Email                                 204 non-null    object
6   Deaprtment                            204 non-null    object
7   Extension                             204 non-null    int64
8   Profile Link                          204 non-null    object
9   Image URL                             204 non-null    object
dtypes: bool(1), int64(2), object(7)
memory usage: 14.7+ KB
```

In [24]: `facultyIslamabadDF.sample(5)`

Out[24]:

	ID	Name	Designation	HEC Approved PhD Supervisor	Highest Education	Email	Deaprtment	Extension	
165	9151	Usman Zafar Chaudhry	Assistant Professor	False	MSc (International Business & Management) Bra...	usman.chaudhry@nu.edu.pk	FAST School of Management	347	http://isb.nu.edu.pk/Faculty/
202	9341	Sadia Nauman	Lecturer	False	M.Phil (English) Government College Universit...	sadia.nauman@nu.edu.pk	Science & Humanities	532	http://isb.nu.edu.pk/Faculty/
98	6406	Sher Bano\n	Instructor	False	BS (Computer Science) National University of C...	sher.bano@nu.edu.pk \n	Computer Science	-1	http://isb.nu.edu.pk/Faculty/
59	6247	Pir Sami Ullah Shah	Lecturer	False	Not Available	samiullah.shah@nu.edu.pk	Computer Science	321	http://isb.nu.edu.pk/Faculty/
22	4708	Uzair Khan	Associate Professor	True	PhD (Computer Science) Inria-i3s CNRS UNSA, F...	uzair.khan@nu.edu.pk	Computer Science	505	http://isb.nu.edu.pk/Faculty/

In [25]: `facultyIslamabadDF.to_csv('isl.csv', index=False)`

~ Karachi Campus ~


```
In [26]: requestKHI=requests.get(urls[2])
if(requestKHI.status_code==200):
    print(requestKHI, '\nHTTP GET Request to Karachi Campus Website Web Server Successful!\n')
    soupKHI=BeautifulSoup(requestKHI.content, 'html.parser') #Parsing Data Retrieved
    print(soupKHI.prettify()[0:100])
else:
    print(requestKHI, '\nHTTP GET Request to Karachi Campus Website Web Server Unsuccessful!\n')
```

<Response [200]>

HTTP GET Request to Karachi Campus Website Web Server Successful!

<!DOCTYPE html>

<html class="no-js" lang="en-US">

<head>

<meta charset="utf-8"/>

<meta content=

```
In [27]: # Gathering All department Links
deptLinks=soupKHI.findAll('a')
departmentLINKS=[]
i=0
for dept in deptLinks:
    if(i>=7):
        break
    if('Department' in dept.text):
        print(dept['href'])
        departmentLINKS.append(dept['href'])
        i=i+1
```

<https://khi.nu.edu.pk/faculty-php/>

<https://khi.nu.edu.pk/department-of-cyber-security/>

<https://khi.nu.edu.pk/department-of-artificial-intelligence/>

<https://khi.nu.edu.pk/department-of-software-engineering/>

<https://khi.nu.edu.pk/department-of-electrical-engineering/>

<https://khi.nu.edu.pk/department-of-management-sciences/>

<https://khi.nu.edu.pk/department-of-sciences-humanities/>

```
In [28]: facultiesKarachiProfileLinks={} #Gathering Profile Links of all departments all Faculty Members
for i in range(len(departmentLINKS)):
    requestKHIA=requests.get(departmentLINKS[i])
    soupKHIA=BeautifulSoup(requestKHIA.content, 'html.parser')
    facultyMemKHI=soupKHIA.findAll('div', class_='gdlr-core-personnel-list-image gdlr-core-media-image gdlr-core-hover-element gdlr-core-zoom-on-hover')
    facultyLINKS=[]
    for j in range(len(facultyMemKHI)):
        facultyLINKS.append(facultyMemKHI[j].find('a')['href'])

    if(i==0):
        facultiesKarachiProfileLinks['department-of-computer-science']=facultyLINKS
    else:
        facultiesKarachiProfileLinks[departmentLINKS[i].split('/')[2]]=facultyLINKS

print(facultiesKarachiProfileLinks)
```

{ 'department-of-computer-science': ['https://khi.nu.edu.pk/personnel/prof-dr-zulfiqar-ali-memon-phd/', 'https://khi.nu.edu.pk/personnel/dr-farooque-hassan-kumbhar-phd/', 'https://khi.nu.edu.pk/personnel/dr-jawwad-a-shamsi-phd/', 'https://khi.nu.edu.pk/personnel/dr-muhammad-atif-tahir-phd/', 'https://khi.nu.edu.pk/personnel/dr-ghufran-ahmed-phd/', 'https://khi.nu.edu.pk/personnel/dr-nadeem-kafi-phd/', 'https://khi.nu.edu.pk/personnel/dr-nouman-durrani-phd/', 'https://khi.nu.edu.pk/personnel/dr-fahad-sherwani-phd/', 'https://khi.nu.edu.pk/personnel/dr-farrukh-hasan-syed-phd/', 'https://khi.nu.edu.pk/personnel/dr-farrukh-salim-shaikh-phd/', 'https://khi.nu.edu.pk/personnel/dr-muhammad-farrukh-shahid-phd/', 'https://khi.nu.edu.pk/personnel/dr-nausheen-shoaib-phd/', 'https://khi.nu.edu.pk/personnel/mr-muhammad-jamil/', 'https://khi.nu.edu.pk/personnel/mr-muhammad-shahzad/', 'https://khi.nu.edu.pk/personnel/mr-shahbaz-siddiqui/', 'https://khi.nu.edu.pk/personnel/dr-nausheen-shoaib/', 'https://khi.nu.edu.pk/personnel/dr-rauf-ahmed-shams-malick/', 'https://khi.nu.edu.pk/personnel/mr-ubaid-aftab/', 'https://khi.nu.edu.pk/personnel/mr-shahbaz-siddiqui-2/', 'https://khi.nu.edu.pk/personnel/ms-abeeha-sattar/', 'https://khi.nu.edu.pk/personnel/ms-anam-queeshi/', 'https://khi.nu.edu.pk/personnel/ms-anaum-hamid/', 'https://khi.nu.edu.pk/personnel/ms-aqsa-zahid/', 'https://khi.nu.edu.pk/personnel/ms-bakhtawer/', 'https://khi.nu.edu.pk/personnel/mr-basit-ali/', 'https://khi.nu.edu.pk/personnel/ms-eman-shahid/', 'https://khi.nu.edu.pk/personnel/mr-fahad-hussain/', 'https://khi.nu.edu.pk/personnel/mr-faisal-ahmed/', 'https://khi.nu.edu.pk/personnel/ms-hajra-ahmed/', 'https://khi.nu.edu.pk/personnel/ms-javeria-farooq/', 'https://khi.nu.edu.pk/personnel/ms-mafaza-mohi/', 'https://khi.nu.edu.pk/personnel/ms-mubashra-fayyaz/', 'https://khi.nu.edu.pk/personnel/mr-muhammad-danish-khan/', 'https://khi.nu.edu.pk/personnel/ms-nida-munawar/', 'https://khi.nu.edu.pk/personnel/ms-noureen-fatima/', 'https://khi.nu.edu.pk/personnel/ms-safia/', 'https://khi.nu.edu.pk/personnel/ms-shahar-bano-husnine/', 'https://khi.nu.edu.pk/personnel/mr-shahroz-bakht/', 'https://khi.nu.edu.pk/personnel/mr-shoaib-rauf/', 'https://khi.nu.edu.pk/personnel/ms-sobia-iftikhar/', 'https://khi.nu.edu.pk/personnel/ms-sumaiyah/', 'https://khi.nu.edu.pk/personnel/mr-syed-zain-ul-hassan/', 'https://khi.nu.edu.pk/personnel/ms-yusra-kaleem/', 'https://khi.nu.edu.pk/personnel/ms-ayesha-ali-2/', 'https://khi.nu.edu.pk/personnel/mr-muhammad-monis/', 'https://khi.nu.edu.pk/personnel/mr-shafique-rahman/', 'https://khi.nu.edu.pk/personnel/mr-shaheer-ahmad-khan/', 'https://khi.nu.edu.pk/personnel/mr-shakir-hussain/', 'https://khi.nu.edu.pk/personnel/mr-taha-ahmed/', 'https://khi.nu.edu.pk/personnel/mr-yasir-arfat/', 'https://khi.nu.edu.pk/personnel/ms-zainab-asif-jawed/'], 'department-of-cyber-security': ['https://khi.nu.edu.pk/personnel/dr-fahad-samad-phd/', 'https://khi.nu.edu.pk/personnel/dr-sufian-hameed/', 'https://khi.nu.edu.pk/personnel/mr-shehbaz-a-siddiqui/', 'https://khi.nu.edu.pk/personnel/mr-muhammad-kariz-kamal/', 'https://khi.nu.edu.pk/personnel/mr-shoaib-raza/', 'https://khi.nu.edu.pk/personnel/ms-rabia-ahmed-ansari/', 'https://khi.nu.edu.pk/personnel/mr-abuzar-zafar/', 'https://khi.nu.edu.pk/personnel/ms-abeer-gauher/', 'https://khi.nu.edu.pk/personnel/mr-muhammad-ali/'], 'department-of-artificial-intelligence': ['https://khi.nu.edu.pk/personnel/dr-muhammad-rafi-phd/', 'https://khi.nu.edu.pk/personnel/dr-muhammad-waqas-phd/', 'https://khi.nu.edu.pk/personnel/syed-farooq-zaidi/', 'https://khi.nu.edu.pk/personnel/ms-saeeda-kanwal/', 'https://khi.nu.edu.pk/personnel/ms-hania-usman/', 'https://khi.nu.edu.pk/personnel/ms-shazia-paras-shaikh/', 'https://khi.nu.edu.pk/personnel/ms-sania-urooj/'], 'department-of-software-engineering': ['https://khi.nu.edu.pk/personnel/dr-abdul-aziz-phd/', 'https://khi.nu.edu.pk/personnel/ms-iqra-fahad/', 'https://khi.nu.edu.pk/personnel/mr-ali-fatimi/', 'https://khi.nu.edu.pk/personnel/ms-naz-memon/', 'https://khi.nu.edu.pk/personnel/ms-syeda-rubab/', 'https://khi.nu.edu.pk/personnel/mr-minhal-raza/', 'https://khi.nu.edu.pk/personnel/mr-muhammad-nadeem/', 'https://khi.nu.edu.pk/personnel/ms-ayesha-ali/', 'https://khi.nu.edu.pk/personnel/dr-syed-muazzam-ali-shah-2/'], 'department-of-electrical-engineering': ['https://khi.nu.edu.pk/personnel/dr-burhan-khan-phd/', 'https://khi.nu.edu.pk/personnel/dr-syed-muhammad-atif-saleem/', 'https://khi.nu.edu.pk/personnel/dr-haider-mehdi-phd/', 'https://khi.nu.edu.pk/personnel/mr-m-ahsan-khan-sunny/', 'https://khi.nu.edu.pk/personnel/mr-muhammad-haris-mohsin/', 'https://khi.nu.edu.pk/personnel/mr-muhammad-haris-mohsin/'] }

```
edu.pk/personnel/mr-muhammad-junaid-rabbani/', 'https://khi.nu.edu.pk/personnel/mr-syed-asim-mahmood/', 'http
s://khi.nu.edu.pk/personnel/ms-qurat-ul-ain-sohail/', 'https://khi.nu.edu.pk/personnel/mr-aamir-ali/', 'http
s://khi.nu.edu.pk/personnel/mr-aqib-noor/', 'https://khi.nu.edu.pk/personnel/mr-zakir-hussain/', 'https://kh
i.nu.edu.pk/personnel/ms-maham-ghauri/', 'https://khi.nu.edu.pk/personnel/ms-rukhsar-ali/', 'https://khi.nu.e
du.pk/personnel/ms-sadaf-ayesha/', 'https://khi.nu.edu.pk/personnel/mr-muhammad-misbah-haider-malik/', 'http
s://khi.nu.edu.pk/personnel/mr-usama-bin-umar/'], 'department-of-management-sciences': ['https://khi.nu.edu.p
k/personnel/dr-muhammad-saad-phd-2/', 'https://khi.nu.edu.pk/personnel/dr-nazia-nazeer-phd/', 'https://khi.n
u.edu.pk/personnel/mr-muhammad-zeeshan-khan/', 'https://khi.nu.edu.pk/personnel/mr-muhammad-ahsan-2/', 'http
s://khi.nu.edu.pk/personnel/ms-asiya-zaheer-2/', 'https://khi.nu.edu.pk/personnel/mr-micheal-hieman-simon/'],
'department-of-sciences-humanities': ['https://khi.nu.edu.pk/personnel/dr-syed-muhammad-fahad-riaz/', 'http
s://khi.nu.edu.pk/personnel/dr-khusro-mian/', 'https://khi.nu.edu.pk/personnel/dr-muhammad-shahzad-shaikh/',
'https://khi.nu.edu.pk/personnel/dr-nazish-kanwal/', 'https://khi.nu.edu.pk/personnel/dr-shahnawaz-muhammad-k
han/', 'https://khi.nu.edu.pk/personnel/mr-muhammad-amjad/', 'https://khi.nu.edu.pk/personnel/ms-sameera-sult
an/', 'https://khi.nu.edu.pk/personnel/ms-alishba-tariq/', 'https://khi.nu.edu.pk/personnel/ms-amber-shaik
h/', 'https://khi.nu.edu.pk/personnel/ms-aqsa-fayyaz/', 'https://khi.nu.edu.pk/personnel/ms-asma-masood/', 'h
ttps://khi.nu.edu.pk/personnel/ms-faiza-mumtaz/', 'https://khi.nu.edu.pk/personnel/ms-fareeha-sultan/', 'http
s://khi.nu.edu.pk/personnel/mr-farhan-ali-memon/', 'https://khi.nu.edu.pk/personnel/ms-huma-hafeez/', 'http
s://khi.nu.edu.pk/personnel/mr-javed-iqbal/', 'https://khi.nu.edu.pk/personnel/ms-javeria-ali-wadho/', 'http
s://khi.nu.edu.pk/personnel/ms-javeria-iftikhar/', 'https://khi.nu.edu.pk/personnel/mr-kashif-ahmed/', 'http
s://khi.nu.edu.pk/personnel/ms-khadija-shereen/', 'https://khi.nu.edu.pk/personnel/ms-madiha-rehman/', 'http
s://khi.nu.edu.pk/personnel/mr-maraj/', 'https://khi.nu.edu.pk/personnel/mr-moheez-ur-rahim/', 'https://khi.n
u.edu.pk/personnel/mr-muhammad-hassan-saeed/', 'https://khi.nu.edu.pk/personnel/mr-muhammad-rameez/', 'http
s://khi.nu.edu.pk/personnel/mr-muhammad-shahid-ashraf/', 'https://khi.nu.edu.pk/personnel/mr-muhammad-wasif-k
han/', 'https://khi.nu.edu.pk/personnel/mr-nadeem-khan/', 'https://khi.nu.edu.pk/personnel/ms-nazia-imam/',
'https://khi.nu.edu.pk/personnel/ms-sabeen-amjad/', 'https://khi.nu.edu.pk/personnel/ms-shahhaj-shakir/', 'ht
tps://khi.nu.edu.pk/personnel/ms-sharmeen-ismail/', 'https://khi.nu.edu.pk/personnel/syed-waqar-ahmed/', 'htt
ps://khi.nu.edu.pk/personnel/ms-syeda-atifa-batool/']}]}
```

```
In [29]: # First Writing Code to scrap details of a single Faculty Member
requestKHIFacultyProfileSingle=requests.get(facultiesKarachiProfileLinks['department-of-computer-science']
[0])
soupKHIFProfile=BeautifulSoup(requestKHIFacultyProfileSingle.content,'html.parser')
print(soupKHIFProfile.prettify()[0:100])
```

```
<!DOCTYPE html>
<html class="no-js" lang="en-US">
<head>
<meta charset="utf-8"/>
<meta content=
```

```
In [30]: print('ID: ',int(str(soupKHIPProfile.find(id='burst-js-extra')).split('\\"page_id\\":')[1].split("\"")[1]))
print('Profile Link:',facultiesKarachiProfileLinks['department-of-computer-science'][0])
print('Name:',str(soupKHIPProfile.find('h3',class_='gdlr-core-title-item-title gdlr-core-skin-title').text.split(', ')[0]))
print('Designation:',str(soupKHIPProfile.find('span',class_='gdlr-core-title-item-caption gdlr-core-info-font gdlr-core-skin-caption').text.split('\n')[0]))
print('HEC Approved?',bool('HEC Approved PhD Supervisor' in soupKHIPProfile.find('span',class_='gdlr-core-title-item-caption gdlr-core-info-font gdlr-core-skin-caption').text))
print('Email: ',str(soupKHIPProfile.find('div',class_='kingster-personnel-info-list kingster-type-email').text))
print('Image URL:',soupKHIPProfile(class_='gdlr-core-lightgallery gdlr-core-js')[0]['href'])
print('Highest Education:',str(''.join(map(str,soupKHIPProfile.findAll('div',class_='gdlr-core-pbf-element'))).split('Education')[1].split('</span')[1].split('>')[-1]))
print('Extension: ',int(soupKHIPProfile.find('div',class_='kingster-personnel-info-list kingster-type-phone').text))
print('Department:',soupKHIPProfile(class_='gdlr-core-lightgallery gdlr-core-js')[0]['href'].split('-')[-1].split('.')[0])
```

ID: 6281

Profile Link: <https://khi.nu.edu.pk/personnel/prof-dr-zulfiqar-ali-memon-phd/>

Name: Prof. Dr. Zulfiqar Ali Memon

Designation: Professor and HoS

HEC Approved? True

Email: zulfiqar.memon@nu.edu.pk

Image URL: <https://khi.nu.edu.pk/wp-content/uploads/2023/01/Dr-Zulfiqar-Ali-Memon-HOS-FSC.png>

Highest Education: PhD (Vrije University) Amsterdam, The Netherlands

Extension: 214

Department: FSC

```

In [32]: # Now scraping info for all faculty members of Karachi Campus [General Code]

Id=[]
name=[]
designation=[]
hecApprovedPhdSupervisor=[]
highestEducation=[]
email=[]
department=[]
extension=[]
imageUrl=[]
profiles=[]

for departmentName,profileLinks in facultiesKarachiProfileLinks.items():
    for i in range(len(profileLinks)):
        requestKHIFacultyProfiles=requests.get(profileLinks[i])
        profiles.append(profileLinks[i])
        soupKHIProfiles=BeautifulSoup(requestKHIFacultyProfiles.content,'html.parser')
        Id.append(int(str(soupKHIProfiles.find(id='burst-js-extra')).split('"page_id\:')[1].split("\"")
[1]))
        name.append(str(soupKHIProfiles.find('h3',class_='gdlr-core-title-item-title gdlr-core-skin-title').t
ext.split(',')[0]))
        designation.append(str(soupKHIProfiles.find('span',class_='gdlr-core-title-item-caption gdlr-core-inf
o-font gdlr-core-skin-caption').text.split('\n')[0]))
        hecApprovedPhdSupervisor.append(bool('HEC Approved PhD Supervisor' in soupKHIProfiles.find('span',cla
ss_='gdlr-core-title-item-caption gdlr-core-info-font gdlr-core-skin-caption').text))

        try: #Incase Email Not Available
            email.append(str(soupKHIProfiles.find('div',class_='kingster-personnel-info-list kingster-type-em
ail').text))
        except:
            email.append('Not Available')

        imageUrl.append(soupKHIProfiles(class_='gdlr-core-lightgallery gdlr-core-js')[0]['href'])

        try: #Incase Education Details Not Available
            highestEducation.append(str(''.join(map(str,soupKHIProfiles.findAll('div',class_='gdlr-core-pbf-e
lement'))).split('Education')[1].split('</span')[1].split('>')[-1]))
        except:
            highestEducation.append('Not Available')

```

```

    try: #Incase Extension Not Available
        extension.append(int(soupKHIPprofiles.find('div',class_='kingster-personnel-info-list kingster-type-phone').text))
    except:
        extension.append(-1)

    department.append(departmentName)

    if(len(profiles)%10==0): #Tells how many faculty members profile information extracted after every 10 profiles extracted
        print('Extracted information from',len(profiles),'Faculty Members Profiles!')

print(len(profiles),'Faculty Members Found!')

```

```

Extracted information from 10 Faculty Members Profiles!
Extracted information from 20 Faculty Members Profiles!
Extracted information from 30 Faculty Members Profiles!
Extracted information from 40 Faculty Members Profiles!
Extracted information from 50 Faculty Members Profiles!
Extracted information from 60 Faculty Members Profiles!
Extracted information from 70 Faculty Members Profiles!
Extracted information from 80 Faculty Members Profiles!
Extracted information from 90 Faculty Members Profiles!
Extracted information from 100 Faculty Members Profiles!
Extracted information from 110 Faculty Members Profiles!
Extracted information from 120 Faculty Members Profiles!
Extracted information from 130 Faculty Members Profiles!
132 Faculty Members Found!

```

```

In [33]: facultyKarachiDF=pd.DataFrame({'ID':Id,'Name':name,'Designation':designation,
                                         'HEC Approved PhD Supervisor':hecApprovedPhdSupervisor,
                                         'Highest Education':highestEducation,
                                         'Email':email,
                                         'Department':department,'Extension':extension,'Profile Link':profiles,'Image URL':imageUrl})

```

In [34]: facultyKarachiDF.info()

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 132 entries, 0 to 131
Data columns (total 10 columns):
#   Column                                Non-Null Count  Dtype
---  -
0   ID                                    132 non-null    int64
1   Name                                132 non-null    object
2   Designation                          132 non-null    object
3   HEC Approved PhD Supervisor          132 non-null    bool
4   Highest Education                    132 non-null    object
5   Email                                132 non-null    object
6   Deaprtment                           132 non-null    object
7   Extension                            132 non-null    int64
8   Profile Link                         132 non-null    object
9   Image URL                            132 non-null    object
dtypes: bool(1), int64(2), object(7)
memory usage: 9.5+ KB
```



```
In [35]: facultyKarachiDF.sample(5)
```

```
Out[35]:
```

	ID	Name	Designation	HEC Approved PhD Supervisor	Highest Education	Email	Deaprtment	Extension	Profil
62	6602	Syed Farooq Zaidi	Senior Lecturer	False	MS (CS), University of Massachusetts, USA (2012)	Not Available	department-of-artificial-intelligence	-1	https://khi.nu.edu.pk/personne-faroc
37	7293	Mr. Shahroz Bakht	Lecturer	False	MS (CS), NUCES, Karachi	shahroz.bakht@nu.edu.pk	department-of-computer-science	136	https://khi.nu.edu.pk/person-shahroz
76	6981	Dr. Burhan Khan	Assistant Professor & HoD	False	PhD (Engg.), University of Tunku Abdul Rahman,...	burhan.khan@nu.edu.pk	department-of-electrical-engineering	265	https://khi.nu.edu.pk/person-burhan-
115	7480	Ms. Javeria Iftikhar	Lecturer	False	MS (Math), IoBM, Karachi	javeria.iftikhar@nu.edu.pk	department-of-sciences-humanities	112	https://khi.nu.edu.pk/person-jave
46	7369	Mr. Shaheer Ahmad Khan	Instructor	False	BS (IT), SS-UET, Karachi	shaheer.khan@nu.edu.pk	department-of-computer-science	284	https://khi.nu.edu.pk/person-shaheer-

```
In [36]: facultyKarachiDF.to_csv('khi.csv', index=False)
```

Step 2:

Concatenate all data frames to create a single data frame having the information of all faculty members from all campuses. Save this data frame as a .csv file named fast_faculty.csv.

```
In [37]: lhr=pd.read_csv('lhr.csv')
isl=pd.read_csv('isl.csv')
khi=pd.read_csv('khi.csv')
```

```
In [39]: fast_faculty=pd.concat([lhr,isl,khi])
fast_faculty.sample(5)
```

Out[39]:

	ID	Name	Designation	HEC Approved PhD Supervisor	Highest Education	Email	Deaprtment	Extension	Prof
56	6694	Ms. Rabia Ahmed Ansari	Lecturer	False	MS (CNS), NUCES, Karachi	rabia.ansari@nu.edu.pk	department- of-cyber- security	293	https://khi.nu.edu.pk/personnel/m a
12	4335	Dr. Asma Ahmad	Assistant Professor	False	PhD(CS), University of Connecticut	asma.ahmad@nu.edu.pk	FSC	-1	https://lhr.nu.edu.pk/fsc/facultyProf
88	7032	Ms. Rukhsar Ali	Lecturer	False	MS (EE), NUCES, Karachi	rukhsar.ali@nu.du.pk	department- of-electrical- engineering	281	https://khi.nu.edu.pk/person rukl
129	4340	Sana Hassan	Assistant Professor	False	MS (Electrical Enigeering) National University...	sana.hassan@nu.edu.pk	Electrical Engineering	105	http://isb.nu.edu.pk/Faculty/Deta
72	6663	Ms. Zoha Waheed	Instructor	False	BS, NUCES, Lahore (2018)	zoha.waheed@nu.edu.pk	FSC	-1	https://lhr.nu.edu.pk/fsc/facultyProf

```
In [40]: fast_faculty.to_csv('fast_faculty.csv',index=False)
```

Step 3:

Load *fastfaculty.csv* into a data frame named *faculty*. Divide last digit of your Student ID by 10 and pass it into *sample* method as *frac* value. If the last digit of your Student ID is 0, keep the below code as -it-is. Save the sample data frame as *sample.csv* file. `sample_ = faculty.sample(frac=0.1)`

```
In [41]: faculty=pd.read_csv('fast_faculty.csv')
```

```
In [42]: sample_=faculty.sample(frac=0.1) #Roll Num : 0921 , 1/10=0.1
```

```
In [43]: sample_.to_csv('sample.csv',index=False)
```

~ Bonus ~

```

In [44]: # BONUS: I wrote this part to futher explore the data I extracted
import pandas as pd
from IPython.display import display
def searchFacultyMembersFAST():
    '''
    This function Lets user search a faculty member in Fast Lahore, Islamabad & Karachi Campus.
    -Input: Takes name of faculty member as input from user
    -Output : Prints their Relevant Information Like:
        -> ID
        -> Name
        -> Designation
        -> HEC Approced PHD supervisor or not
        -> Highest Education
        -> Email
        -> Department
        -> Extension
        -> ImageURL
    '''
    while(True):
        name=input('\nPlease Enter Name of Faculty Member to Search or exit to Quit: ')

        if(name.lower()=='exit' or name.lower()=='quit'):
            print('BYE!')
            break

        #To make sure names entered in both lowercase and uppcase are matched
        fastFaculty=pd.read_csv('fast_faculty.csv')
        fast_faculty2=fastFaculty.copy()
        fast_faculty2['Name']=fastFaculty['Name'].str.lower()

        results=fastFaculty[fast_faculty2.Name.str.contains(name.lower())]

        if(len(results)>0):
            print('\nYour Search Results Are as Follows:\n')
            display(results)
        else:
            print('\nNo match found!\n')

help(searchFacultyMembersFAST)
searchFacultyMembersFAST()

```

Help on function searchFacultyMembersFAST in module __main__:

searchFacultyMembersFAST()

This function lets user search a faculty member in Fast Lahore, Islamabad & Karachi Campus.

-Input: Takes name of faculty member as input from user

-Output : Prints their Relevant Information like:

- > ID
- > Name
- > Designation
- > HEC Approcd PHD supervisor or not
- > Highest Education
- > Email
- > Department
- > Extension
- > ImageURL

Please Enter Name of Faculty Member to Search or exit to Quit: Aisha

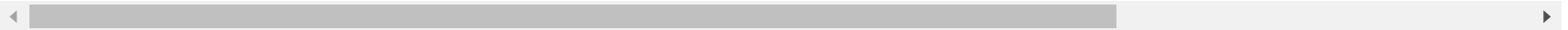
Your Search Results Are as Follows:

	ID	Name	Designation	HEC Approved PhD Supervisor	Highest Education	Email	Deaprtment	Extension	
168	5622	Ms. Aisha Bano	Lecturer	False	MPhil,hazara university,MANSEHRA(2016)	aisha.bano@nu.edu.pk	SS	-1	https://lhr.nu.edu.pk/s
380	3940	Aisha Ijaz	Assistant Professor	False	M.Phil (Physics) Quaid-i- Azam University , Isl...	aisha.ijaz@nu.edu.pk	Science & Humanities	362	http://isb.nu.edu.pk/f

Please Enter Name of Faculty Member to Search or exit to Quit: Mehwish

Your Search Results Are as Follows:

	ID	Name	Designation	HEC Approved PhD Supervisor	Highest Education	Email	Deaprtment	Extension	Profile
381	4127	Mehwish Hassan	Assistant Professor	False	P.hD (Maths, Engineering) University of Bresci...	mehwish.hassan@nu.edu.pk	Science & Humanities	363	http://isb.nu.edu.pk/Faculty/De



Please Enter Name of Faculty Member to Search or exit to Quit: ishaq

Your Search Results Are as Follows:

	ID	Name	Designation	HEC Approved PhD Supervisor	Highest Education	Email	Deaprtment	Extension	Profile I
27	4015	Mr. Ishaq Raza	Assistant Professor	False	M.S(Computer Science), University Of Central...	ishaq.raza@nu.edu.pk	FSC	214	https://lhr.nu.edu.pk/fsc/facultyProfile/4



Please Enter Name of Faculty Member to Search or exit to Quit: saif

Your Search Results Are as Follows:

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