Name: - L Prathyusha

In [2]:

```python
import requests
from bs4 import BeautifulSoup
session=requests.Session()
url="https://github.com/login"
username='Macuyiko'
#visit the login page
r=session.get(url.format('login'))
html_soup=BeautifulSoup(r.text,'html.parser')
```

In [3]:

```
form=html_soup.find_all('form')
form
```

Out[3]:

```
[<form accept-charset="UTF-8" action="/session" method="post"><input name="a
uthenticity_token" type="hidden" value="esG/SkEqHT1389Cevy9Twm7QthhRx/jRKOca
KB7HL4hJ1CKDPA2P4Zf6GkO93CNQ/9ZVB4647NZ4AUuvOPnU9w=="> <label for="login_fie
ld">
      Username or email address
    </label>
 <input autocapitalize="off" autocomplete="username" autocorrect="off" autof
ocus="autofocus" class="form-control input-block" id="login_field" name="log
in" type="text"/>
 <div class="position-relative">
 <label for="password">
        Password
      </label>
 <input autocomplete="current-password" class="form-control form-control inp
ut-block" id="password" name="password" type="password"/>
 <input class="form-control" id="trusted_device" name="trusted_device" type
="hidden"/>
 <input class="js-webauthn-support" name="webauthn-support" type="hidden" va
lue="unknown"/>
 <input class="js-webauthn-iuvpaa-support" name="webauthn-iuvpaa-support" ty
pe="hidden" value="unknown"/>
 <input class="form-control" id="return_to" name="return_to" type="hidden" v
alue="https://github.com/login">
 <input class="form-control" id="allow_signup" name="allow_signup" type="hid
den">
 <input class="form-control" id="client_id" name="client_id" type="hidden"/>
 <input class="form-control" id="integration" name="integration" type="hidde
n"/>
 <input class="form-control" hidden="hidden" name="required_field_29e0" type
="text"/><input class="form-control" name="timestamp" type="hidden" value="1
627964557427"/><input class="form-control" name="timestamp_secret" type="hid
den" value="357db7c4c4e283d61d6cf1f88316136103859d1b0997e2c5a29d9c5ecd3e5f2
5"/>
 <input class="btn btn-primary btn-block" data-disable-with="Signing in…" na
me="commit" type="submit" value="Sign in"/>
 <a class="label-link position-absolute top-0 right-0" href="/password_rese
t" tabindex="0">Forgot password?</a>
 </input></input></div>
 </input></form>]
```

In [4]:

```python
#<input="hidden"> will give values for all the hidden values in the login page
hidden_tags = html_soup.find_all("input",type="hidden")
hidden_tags
```

Out[4]:

```
[<input class="js-octo-ga-id-input" name="ga_id" type="hidden"/>,
 <input name="authenticity_token" type="hidden" value="esG/SkEqHT1389Cevy9Tw
m7QthhRx/jRKOcaKB7HL4hJ1CKDPA2P4Zf6GkO93CNQ/9ZVB4647NZ4AUuvOPnU9w=="> <label
for="login_field">
     Username or email address
   </label>
 <input autocapitalize="off" autocomplete="username" autocorrect="off" autof
ocus="autofocus" class="form-control input-block" id="login_field" name="log
in" type="text"/>
 <div class="position-relative">
 <label for="password">
       Password
     </label>
 <input autocomplete="current-password" class="form-control form-control inp
ut-block" id="password" name="password" type="password"/>
 <input class="form-control" id="trusted_device" name="trusted_device" type
="hidden"/>
 <input class="js-webauthn-support" name="webauthn-support" type="hidden" va
lue="unknown"/>
 <input class="js-webauthn-iuvpaa-support" name="webauthn-iuvpaa-support" ty
pe="hidden" value="unknown"/>
 <input class="form-control" id="return_to" name="return_to" type="hidden" v
alue="https://github.com/login">
 <input class="form-control" id="allow_signup" name="allow_signup" type="hid
den">
 <input class="form-control" id="client_id" name="client_id" type="hidden"/>
 <input class="form-control" id="integration" name="integration" type="hidde
n"/>
 <input class="form-control" hidden="hidden" name="required_field_29e0" type
="text"/><input class="form-control" name="timestamp" type="hidden" value="1
627964557427"/><input class="form-control" name="timestamp_secret" type="hid
den" value="357db7c4c4e283d61d6cf1f88316136103859d1b0997e2c5a29d9c5ecd3e5f2
5"/>
 <input class="btn btn-primary btn-block" data-disable-with="Signing in…" na
me="commit" type="submit" value="Sign in"/>
 <a class="label-link position-absolute top-0 right-0" href="/password_rese
t" tabindex="0">Forgot password?</a>
 </input></input></div>
 </input>,
 <input class="form-control" id="trusted_device" name="trusted_device" type
="hidden"/>,
 <input class="js-webauthn-support" name="webauthn-support" type="hidden" va
lue="unknown"/>,
 <input class="js-webauthn-iuvpaa-support" name="webauthn-iuvpaa-support" ty
pe="hidden" value="unknown"/>,
 <input class="form-control" id="return_to" name="return_to" type="hidden" v
alue="https://github.com/login">
 <input class="form-control" id="allow_signup" name="allow_signup" type="hid
den">
 <input class="form-control" id="client_id" name="client_id" type="hidden"/>
 <input class="form-control" id="integration" name="integration" type="hidde
n"/>
 <input class="form-control" hidden="hidden" name="required_field_29e0" type
```

```
="text"/><input class="form-control" name="timestamp" type="hidden" value="1
627964557427"/><input class="form-control" name="timestamp_secret" type="hid
den" value="357db7c4c4e283d61d6cf1f88316136103859d1b0997e2c5a29d9c5ecd3e5f2
5"/>
 <input class="btn btn-primary btn-block" data-disable-with="Signing in…" na
me="commit" type="submit" value="Sign in"/>
 <a class="label-link position-absolute top-0 right-0" href="/password_rese
t" tabindex="0">Forgot password?</a>
 </input></input>,
 <input class="form-control" id="allow_signup" name="allow_signup" type="hid
den">
 <input class="form-control" id="client_id" name="client_id" type="hidden"/>
 <input class="form-control" id="integration" name="integration" type="hidde
n"/>
 <input class="form-control" hidden="hidden" name="required_field_29e0" type
="text"/><input class="form-control" name="timestamp" type="hidden" value="1
627964557427"/><input class="form-control" name="timestamp_secret" type="hid
den" value="357db7c4c4e283d61d6cf1f88316136103859d1b0997e2c5a29d9c5ecd3e5f2
5"/>
 <input class="btn btn-primary btn-block" data-disable-with="Signing in…" na
me="commit" type="submit" value="Sign in"/>
 <a class="label-link position-absolute top-0 right-0" href="/password_rese
t" tabindex="0">Forgot password?</a>
 </input>,
 <input class="form-control" id="client_id" name="client_id" type="hidden"/
>,
 <input class="form-control" id="integration" name="integration" type="hidde
n"/>,
 <input class="form-control" name="timestamp" type="hidden" value="162796455
7427"/>,
 <input class="form-control" name="timestamp_secret" type="hidden" value="35
7db7c4c4e283d61d6cf1f88316136103859d1b0997e2c5a29d9c5ecd3e5f25"/>]
```

In [5]:

```python
data={}
for form in html_soup.find_all('form'):
    #get out the hidden form fields
    for inp in form.select('input[type=hidden]'):
        data[inp.get('name')]=inp.get('value')
        print(data)
```

```
{'authenticity_token': 'esG/SkEqHT1389Cevy9Twm7QthhRx/jRKOcaKB7HL4hJ1CKDPA2P
4Zf6GkO93CNQ/9ZVB4647NZ4AUuvOPnU9w=='}
{'authenticity_token': 'esG/SkEqHT1389Cevy9Twm7QthhRx/jRKOcaKB7HL4hJ1CKDPA2P
4Zf6GkO93CNQ/9ZVB4647NZ4AUuvOPnU9w==', 'trusted_device': None}
{'authenticity_token': 'esG/SkEqHT1389Cevy9Twm7QthhRx/jRKOcaKB7HL4hJ1CKDPA2P
4Zf6GkO93CNQ/9ZVB4647NZ4AUuvOPnU9w==', 'trusted_device': None, 'webauthn-sup
port': 'unknown'}
{'authenticity_token': 'esG/SkEqHT1389Cevy9Twm7QthhRx/jRKOcaKB7HL4hJ1CKDPA2P
4Zf6GkO93CNQ/9ZVB4647NZ4AUuvOPnU9w==', 'trusted_device': None, 'webauthn-sup
port': 'unknown', 'webauthn-iuvpaa-support': 'unknown'}
{'authenticity_token': 'esG/SkEqHT1389Cevy9Twm7QthhRx/jRKOcaKB7HL4hJ1CKDPA2P
4Zf6GkO93CNQ/9ZVB4647NZ4AUuvOPnU9w==', 'trusted_device': None, 'webauthn-sup
port': 'unknown', 'webauthn-iuvpaa-support': 'unknown', 'return_to': 'http
s://github.com/login'}
{'authenticity_token': 'esG/SkEqHT1389Cevy9Twm7QthhRx/jRKOcaKB7HL4hJ1CKDPA2P
4Zf6GkO93CNQ/9ZVB4647NZ4AUuvOPnU9w==', 'trusted_device': None, 'webauthn-sup
port': 'unknown', 'webauthn-iuvpaa-support': 'unknown', 'return_to': 'http
s://github.com/login', 'allow_signup': None}
{'authenticity_token': 'esG/SkEqHT1389Cevy9Twm7QthhRx/jRKOcaKB7HL4hJ1CKDPA2P
4Zf6GkO93CNQ/9ZVB4647NZ4AUuvOPnU9w==', 'trusted_device': None, 'webauthn-sup
port': 'unknown', 'webauthn-iuvpaa-support': 'unknown', 'return_to': 'http
s://github.com/login', 'allow_signup': None, 'client_id': None}
{'authenticity_token': 'esG/SkEqHT1389Cevy9Twm7QthhRx/jRKOcaKB7HL4hJ1CKDPA2P
4Zf6GkO93CNQ/9ZVB4647NZ4AUuvOPnU9w==', 'trusted_device': None, 'webauthn-sup
port': 'unknown', 'webauthn-iuvpaa-support': 'unknown', 'return_to': 'http
s://github.com/login', 'allow_signup': None, 'client_id': None, 'integratio
n': None}
{'authenticity_token': 'esG/SkEqHT1389Cevy9Twm7QthhRx/jRKOcaKB7HL4hJ1CKDPA2P
4Zf6GkO93CNQ/9ZVB4647NZ4AUuvOPnU9w==', 'trusted_device': None, 'webauthn-sup
port': 'unknown', 'webauthn-iuvpaa-support': 'unknown', 'return_to': 'http
s://github.com/login', 'allow_signup': None, 'client_id': None, 'integratio
n': None, 'timestamp': '1627964557427'}
{'authenticity_token': 'esG/SkEqHT1389Cevy9Twm7QthhRx/jRKOcaKB7HL4hJ1CKDPA2P
4Zf6GkO93CNQ/9ZVB4647NZ4AUuvOPnU9w==', 'trusted_device': None, 'webauthn-sup
port': 'unknown', 'webauthn-iuvpaa-support': 'unknown', 'return_to': 'http
s://github.com/login', 'allow_signup': None, 'client_id': None, 'integratio
n': None, 'timestamp': '1627964557427', 'timestamp_secret': '357db7c4c4e283d
61d6cf1f88316136103859d1b0997e2c5a29d9c5ecd3e5f25'}
```

In [6]:

```python
if input('Do you want to login(y/n):') == 'y':
    #perform the login
    r=session.post(url.format('session'),data=data)
    #get the profile page
    r=session.get(url.format(username))

html_soup = BeautifulSoup(r.text,'html.parser')
user_info = html_soup.find(class_='vcard-detail')
print(user_info.text)
```

Do you want to login(y/n):y

```
---------------------------------------------------------------------------
AttributeError                            Traceback (most recent call last)
<ipython-input-6-74b91388a527> in <module>
      7 html_soup = BeautifulSoup(r.text,'html.parser')
      8 user_info = html_soup.find(class_='vcard-detail')
----> 9 print(user_info.text)

AttributeError: 'NoneType' object has no attribute 'text'
```

In [ ]:

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