In [ ]:
```python
from bs4 import BeautifulSoup
import pandas as pd
import requests
import csv
from selenium.webdriver.support.ui import Select
from selenium.webdriver import Chrome
import time
## get the terms
term = {1:"Fall", 0: "Spring"}
terms =[]
for i in range(2005, 2020):
    for j in range(0,2):
        terms.append(term.get(j)+" "+str(i))
## get url
base = "https://webapps.sfsu.edu"
driver = 'chromedriver.exe'
driver = Chrome(driver)
url = "https://webapps.sfsu.edu/public/classservices/classsearch"
driver.get(url)
urls =[]
for term in terms:
    driver.get(url)
    search_form = driver.find_element_by_id('classScheduleAdvanced_term').send
_keys(term)
    select = Select(driver.find_element_by_id('classScheduleAdvanced_subject'
))
    select.select_by_value("CSC")
    driver.find_element_by_id('classScheduleAdvanced_submit').click()
    # get all elements
    for i in range(0,6):
        #parse table
        time.sleep(5)
        source = driver.page_source
        soup = BeautifulSoup(source, 'lxml')
        table = soup.find('table')
        table_body = table.find('tbody')
        rows = table_body.find_all('tr')
        for row in rows:
            head = row.find('th')
            urls.append(base + head.find('a', href=True).get('href'))
        driver.find_element_by_link_text('Next').click()
print("all data collected")
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In [ ]: #for url in urls:
        import requests
        seats =[]
        enrolled=[]
        years=[]
        course=[]
        prof = []
        for url in urls:
            html_content = requests.get(url)
            soup = BeautifulSoup(html_content.text, 'lxml')
            div = soup.find_all('div', class_="col-xs-5 col-md-6")
            title = soup.find('h2')
            x = title.text.split('-')
            y = x[0].split(']')
            title =y[0]+"]"
            year = soup.find('h1')
            x = year.text.split('-')
            x = x[1].split(' ')
            year = x[1]+" "+x[2]
            td = soup.find_all('td')
            try:
                pName = td[len(td)-1].text.lstrip().split("\n")[0]
            except:
                pName = "Null"
            print(pName)
            print(title)
            print(year)
            prof.append(pName)
            seats.append(int(div[0].text))
            enrolled.append(int(div[1].text))
            years.append(year)
            course.append(title)
```

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In [ ]:
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In [6]: out_Data = pd.DataFrame({'term': years, 'Course_Name': course, 'enrolled': enr
        olled, 'total_Seats': seats,'Prof Name': prof})
        out_Data.to_csv(r'C:\Users\tomb3\Desktop\SF_State_Data.csv')
        print("done")
```

done

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In [ ]:
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