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import requests
from bs4 import BeautifulSoup
from datetime import datetime as date

#Enter a word here
searchterm = input("Enter a Search Term: ")

#enter the minimal severity
minseverity = input("Type in a minimum severity value (1-10): ")

#Enter the start and end dates here.
startdate = input("Type in start publish date(MM-DD-YYYY): ")

enddate = input("Type in end publish date (MM-DD-YYYY): ")

str_date = startdate.split('-')
#printingTheStartingDate
startdate = date(int(str_date[2]), int(str_date[0]), int(str_date[1]))
str_date = enddate.split('-')
enddate = date(int(str_date[2]), int(str_date[0]), int(str_date[1]))

Enter a Search Term: python
Type in a minimum severity value (1-10): 8.0
Type in start publish date(MM-DD-YYYY): 01-13-2015
Type in end publish date (MM-DD-YYYY): 11-30-2019

url = 'https://nvd.nist.gov/vuln/search/results?form_type=Basic&results_type=overview&query='+searchterm+'&search_type=all&startIr

response = requests.get(url)
content = response.content

soup = BeautifulSoup(content, 'lxml')

sum = soup.find('strong', {"data-testid": "vuln-matching-records-count"}).text

pages = int(sum) // 20 + 1
print("The search returned "+ sum +" results. Use the following criteria to refine your search.\nThere are "+ str(pages) +" pages.
# outcome

The search returned 716 results. Use the following criteria to refine your search.
There are 36 pages.

vuls = []

summaries=[]

severities = []

publishdates = []

urls = []

for page in range(pages):

    table = soup.find("table")
    url = 'https://nvd.nist.gov/vuln/search/results?form_type=Basic&results_type=overview&query='+searchterm+'&search_type=all&sta
    response = requests.get(url)
    content = response.content
    soup = BeautifulSoup(content, 'lxml')

    rows = table.findAll('tr')

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print("We are on page #"+str(page+1)+"\n"+url+"\n")

for tr in rows[1:]:
    vul = tr.find('th').find('a').text
    vuls.append(vul)

    summary = tr.find('td').find('p').text

    summaries.append(summary)

severity = ""
try:
    severity = tr.find_all('td')[1].find('a').text.split(' ')[0]
except:
    severity = "10"
severities.append(severity)    # If a score is unavailable, a score of 10 will be given instead.

publishdate = tr.find('td').find('span').text.replace(',','').split(';')[0].split(' ')
MONTHS = ['January', 'February', 'March', 'April', 'May', 'June', 'July', 'August', 'September', 'October', 'November', 'December']
publishdate[0] = MONTHS.index(publishdate[0]) + 1
publishdate[1] = int(publishdate[1])
publishdate[2] = int(publishdate[2])
publishdate = date(publishdate[2], publishdate[0], publishdate[1])
publishdates.append(publishdate)

urls.append("https://nvd.nist.gov/vuln/detail/"+vul)    # GivenResult

We are on page #18
https://nvd.nist.gov/vuln/search/results?form\_type=Basic&results\_type=overview&query=python&search\_type=all&startIndex=340

We are on page #19

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we are on page #36

https://nvd.nist.gov/vuln/search/results?form_type=Basic&results_type=overview&query=python&search_type=all&startIndex=700

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✓ 4s completed at 10:40 PM

