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INLS 560

Assignment 8 help files

Session 8

Assignment 8 was introduced with Files Session

- We did not take the time to work through all the coding, so I made these screen shots available.
- There is not just “one way” to get this done.
- If you figure out a better way to get the same results, or if you want to provide extra features, that is fine.
- If you have a ChatGPT account, or some other AI account, see if you can get it to generate a simple CSV list of around 60 to 100 items. Two columns of data is okay. (Like the samples.)
- Submit your code using your sample files. If you don't get a list with AI, you may need to find other options for coming up with a list.

Screen Shot 1: Lines 1 through 12

 main.py > ...

```
1  import sys # don't use quit() or exit() in production code. Use sys.exit
2
3  # Make program repeat:
4  while True:
5
6  # get user input for file:
7      file_variable = input('''
8          What file would you like to search for?:
9          a) 60s-music file
10         b) athletes file
11         x) to exit
12         ''')
13
```

Screen Shot 2: Lines 14 through 28

```
14 # process user input
15     if file_variable == 'x':
16         sys.exit() # this requires
17     elif file_variable == 'a':
18         file_variable = '60s-music.csv'
19     elif file_variable == 'b':
20         file_variable = 'athletes.csv'
21     else:
22         print('Invalid option. Please select a, b, or x.')
23         continue
24
25     # enter a search term this // is a global variable
26     search_variable = input(f'Enter the search term for {file_variable} file: ')
27     search_variable = search_variable.title() # Make it so that the user can enter lower-case term.
28
```

Screen Shot 3: Lines 29 through 43

```
29
30 # go to 02_search_for_term.py to continue .....
31 def find(file_variable,search_variable):
32     with open(file_variable, 'r') as file:
33         content = file.read()
34     # now the file is in the memory buffer as content
35
36     # Next check to see if the search_variable is in the content buffer:
37     if search_variable in content:
38
39         # if the file print that it is in the file AND
40         # if user wants to see the entries for the term
41         print(f'Your search term {search_variable} exists in the {file_variable} file!')
42         see_entries = input('Would you like to see the entries? (y or n)?')
43
```

Screen Shot 4: Lines 44 through 56

```
43
44 # if y then run this code to output all the entries:
45  if see_entries.lower() == 'y':
46     print(f'Here are all of the entries with the term {search_variable}:')
47     with open(file_variable, 'r') as file:
48         for line in file:
49             if search_variable in line: #
50                 print(line.strip())
51
52
53 # if N lowercase (user does not want to ) then run this code:
54  elif see_entries.lower() == 'n':
55     print('Goodbye')
56     sys.exit()
```

Screen Shot 5: Lines 57 through 68

```
57
58  ✓      else:
59          print("Invalid option. Please enter y or n.")
60
61
62      # if it is not, print that it is there
63  ✓      else:
64          print(f'{search_variable} does not exist in {file_variable}')
65
66
67      # call the function
68      find(file_variable, search_variable)
```

[Link to Trinket to to the sample 60s music CSV data](#)

```
i 1 Hey Jude,The Beatles
2 (Sittin' On) The Dock of the Bay,Otis Redding
3 I Want to Hold Your Hand,The Beatles
4 Like a Rolling Stone,Bob Dylan
5 Respect,Aretha Franklin
6 I Can't Get No Satisfaction,The Rolling Stones
7 My Girl,The Temptations
8 Yesterday,The Beatles
9 A Day in the Life,The Beatles
10 Good Vibrations,The Beach Boys
11 What a Wonderful World,Louis Armstrong
12 House of the Rising Sun,The Animals
13 Blowin' in the Wind,Bob Dylan
14 Stand By Me,Ben E. King
15 Let It Be,The Beatles
16 In the Midnight Hour,Wilson Pickett
17 Help!,The Beatles
18 Twist and Shout,The Beatles
19 California Dreamin',The Mamas & the Papas
20 I Heard It Through the Grapevine,Marvin Gaye
21 Can't Help Falling in Love,Elvis Presley
22 Brown Eyed Girl,Janis Joplin
23 I Say a Little Prayer,Aretha Franklin
24 Under the Boardwalk,The Drifters
25 (Sittin' On) The Dock of the Bay,Otis Redding
26 Johnny B. Goode,Chuck Berry
27 I'm a Believer,The Monkees
28 My Generation,The Who
29 Born to Be Wild,Steppenwolf
30 For Once in My Life,Stevie Wonder
31 All Along the Watchtower,The Jimi Hendrix Experience
32 Suspicious Minds,Elvis Presley
33 A Whiter Shade of Pale,Procol Harum
```

[Link to Trinket to get the sample athletes CSV data](#)

```
i 1 Brady, Tom, American Football
2 Manning, Peyton, American Football
3 Bettis, Jerome, American Football
4 Smith, Emmitt, American Football
5 Jeter, Derek, Baseball
6 Rodriguez, Alex, Baseball
7 Ruth, Babe, Baseball
8 Barkley, Charles, Basketball
9 James, LeBron, Basketball
10 Jordan, Michael, Basketball
11 Bryant, Kobe, Basketball
12 Johnson, Magic, Basketball
13 Nash, Steve, Basketball
14 Ali, Muhammad, Boxing
15 Mayweather Jr., Floyd, Boxing
16 Pacquiao, Manny, Boxing
17 Armstrong, Lance, Cycling
18 Daley, Tom, Diving
19 Schumacher, Michael, Formula 1
20 Mickelson, Phil, Golf
21 Woods, Tiger, Golf
22 Biles, Simone, Gymnastics
23 Comăneci, Nadia, Gymnastics
24 Gretzky, Wayne, Ice Hockey
25 Rousey, Ronda, Mixed Martial Arts
26 Vonn, Lindsey, Skiing
27 Hamm, Mia, Soccer
28 Messi, Lionel, Soccer
29 Ronaldo, Cristiano, Soccer
30 Pele, Pelé, Soccer
31 Phelps, Michael, Swimming
32 Djokovic, Novak, Tennis
33 Federer, Roger, Tennis
```