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\mathbf{1} # Python File Handling & List Comprehension: Write a python program to read the contents of a
 2 # file (filename as argument) and store the number of occurrences of each word in a dictionary.
 3 # Display the top 10 words with most number of occurrences in descending order. Store the length
 4 # each of these words in a list and display the list. Write a one-line reduce function to get the
   average
 5 # length and one-line list comprehension to display squares of all odd numbers and display both.
 7 from functools import reduce
 8 from collections import Counter
 9 f=open("counting.txt")
10 #make a text file say counting.txt(in same folder)
11 contents=f.read().split()
12 print("\nFile Contents:")
13 print(*contents,sep=' ')
15 print (contents, sep-)
14 count_dict = Counter(contents)
15 print("\n\n",count_dict)
16 print("\n10 Words in decreasing order of occurance:")
17 s=(sorted(count_dict.items(),key=lambda x:x[1],reverse=True))
18 print(s[:10])
19 wordlen=[len(i) for i,j in s[:10]]
20 print("\nList with length of each word:\n",wordlen)
21 avg=(reduce(lambda x,y:x+y,wordlen))/len(wordlen)
22 print("Avg: ",avg)
23 sq_odd=[i*i for i in wordlen if i%2!=0]
24 print("Square of odd numbers: \n",sq_odd)
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