

Working with files

W4 ¶

Instructions to follow:

1. Prompts for the file name
2. Then opens that file and reads through it, looking for lines like X-DSPAM-Confidence
3. Extract the floating-point values from the end of each of the lines
4. Sum the total
5. Count how many lines
6. Compute the average of those values and produce output like: Count: 27

Mean is: 0.7507185185185187

```
In [1]: textFile = input("Enter the name of your file with its extension: ")
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Enter the name of your file with its extension: mbox-short.txt

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In [2]: fileOpener = open(textFile)
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In [3]: counter = 0
total = 0
for line in fileOpener:
    if not "X-DSPAM-Confidence" in line:
        continue
    counter = counter + 1
    itemList = line.split()
    value = float(itemList[1])
    total = total + value
    average = total / counter
print("The number of lines that matches condition is: ",counter)
print("The sum is: ",total)
print("The average is : ",average)
```

The number of lines that matches condition is: 27

The sum is: 20.269400000000005

The average is : 0.7507185185185187

The end of the program