



CS23336-Introduction to Python Programming

Started on Monday, 18 November 2024, 2:01 AM

State Finished

Completed on Monday, 18 November 2024, 6:52 PM

Time taken 16 hours 51 mins

Marks 10.00/10.00

Grade **100.00** out of 100.00

Question 1

Correct

Mark 1.00 out of 1.00

☐ Flag question

Question text

Write a Python program to count the frequency of each word in a given text file.

Description:

1. Input:

- String as input.

2. Output:

- A list of words with their corresponding frequency count to be write in a file "output.txt"

Example:

• Input File Content:

apple orange apple banana apple orange

Output:

apple: 3
orange: 2
banana: 1

For example:

Test

Input

Result

```
with open('output.txt', 'r') as file:  
    text = file.read()  
    print(text)
```

```
apple orange apple banana apple orange  
apple: 3  
orange: 2  
banana: 1
```

Answer:(penalty regime: 0 %)

```
n=input()
l="".join([c for c in n
if c.isalnum() or
c.isspace()])
l=l.split()
l=sorted(l,key=str.lower)
d={}
for i in l:

d[i.lower()]=str(l.count(i))
s=""
for i in d:
    s+=(i+":'
'+d[i]+'\\n')
f=open('output.txt','w')
```

Feedback

| Test | Input | Expected | Got |
|--|---|---|---|
| with open('output.txt', 'r') as file: text = file.read() print(text) | apple orange apple banana apple orange | apple: 3 banana: 1 orange: 2 | apple: 3 banana: 1 orange: 2 |
| with open('output.txt', 'r') as file: text = file.read() print(text) | Hello world! Hello everyone. Welcome to the world of programming. | everyone: 1 hello: 2 of: 1 programming: 1 the: 1 to: 1 welcome: 1 world: 2 | everyone: 1 hello: 2 of: 1 programming: 1 the: 1 to: 1 welcome: 1 world: 2 |
| with open('output.txt', 'r') as file: text = file.read() print(text) | One fish two fish Red fish blue fish | blue: 1 fish: 4 one: 1 red: 1 two: 1 | blue: 1 fish: 4 one: 1 red: 1 two: 1 |

Passed all tests!

Correct
Marks for this submission: 1.00/1.00.

Question 2

Correct
Mark 1.00 out of 1.00
☐ Flag question

Question text

Create a Python program to find the longest word in a text file.

- **Input:**
 - A text file containing multiple lines of text.
- **Output:**
 - The longest word in the file.

For example:

| Input | Result |
|------------|--------------------------|
| input1.txt | Longest word: containing |

Answer:(penalty regime: 0 %)

```
i=input()
with open(i,'r') as f:
    l=f.read()
l=l.split()
s= max(l,key=len)
print('Longest
word:',s)
```

Feedback

| Input | Expected | Got |
|---|----------|--|
| input1.txt Longest word: containing | | Longest word: containing |
| input2.txt Longest word: thousand | | Longest word: thousand |
| input3.txt Longest word: supercalifragilisticexpialidocious | | Longest word: supercalifragilisticexpialidocious |

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Question 3

Correct

Mark 1.00 out of 1.00

☐ Flag question

Question text

Develop a Python program to identify and print all palindrome words from a given text file.

Description:

1. **Input:**
 - A text file containing multiple words.
2. **Output:**
 - A list of palindrome words found in the file name as 'output.txt'.

For example:

| Test | Input | Result |
|--|--|--------|
| with open('output.txt', 'r') as file: text = file.read() print(text) | madam input1.txt arora malayalam | |

Answer:(penalty regime: 0 %)

```
i=input()
with open(i,'r') as f:
    l=f.read()
    l=l.split()
    s=""
    for i in l:
        if i==i[::-1]:
            s+=i+'\n'
    with
    open('output.txt','w')
    as f:
        f.write(s)
```

Feedback

| Test | Input | Expected | Got |
|--|------------|-----------------------------|-----------------------------|
| with open('output.txt', 'r') as file: text = file.read() print(text) | input1.txt | madam arora malayalam | madam arora malayalam |

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Question 4

Correct

Mark 1.00 out of 1.00

☐ Flag question

Question text

Develop a Python program to read a text file and count the total number of words in the file.

Description:

1. **Input:**
- A text file containing several lines of text.
 - File name you should get as input.
2. **Output:**
- The total number of words in the file.

For example:

| Input | Result |
|------------|-----------------|
| input2.txt | Total words: 14 |
| input3.txt | Total words: 15 |

Answer:(penalty regime: 0 %)

```
import re
i = input()
with open(i,'r') as f:
    l=f.readlines()
l1=[]
for i in l:
    x=i.split()
    l1.extend(x)
print('Total
words:',len(l1))
```

Feedback

| Input | Expected | Got |
|------------|-----------------|-----------------|
| input1.txt | Total words: 6 | Total words: 6 |
| input2.txt | Total words: 14 | Total words: 14 |
| input3.txt | Total words: 15 | Total words: 15 |

Passed all tests!

Correct
Marks for this submission: 1.00/1.00.

Question 5

Correct
Mark 1.00 out of 1.00
☐ Flag question

Question text

Create a Python program to delete a specific line from a text file based on a given line number.

Description:

1. **Input:**
 - A text file with multiple lines.
 - A line number to delete.
2. **Output:**
 - The updated file with the specified line removed in file "output.txt".

Example:

- **Input File Content:**
"Line one.
Line two.
Line three.
Line four."
2

Updated line two.

Output:

Line one.
Line three.
Line four.

For example:

| Test | Input | Result |
|--|-----------------|--|
| with open('output.txt', 'r') as file: text = file.read() print(text) | input1.txt 2 | Line one. Line three. Line four. |

Answer:(penalty regime: 0 %)

```
i = input()
o = 'output.txt'
n=int(input())
with open(i,'r') as f:
    l=f.readlines()
l.remove(l[n-1])
with open(o,'w') as f:
    f.writelines(l)
```

Feedback

| Test | Input | Expected | Got |
|--|-----------------|--|--|
| with open('output.txt', 'r') as file: text = file.read() print(text) | input1.txt 2 | Line one. Line three. Line four. | Line one. Line three. Line four. |
| with open('output.txt', 'r') as file: text = file.read() print(text) | input2.txt 3 | Line A. Line B. | Line A. Line B. |

Passed all tests!


Correct

Marks for this submission: 1.00/1.00.

Question 6

Correct

Mark 1.00 out of 1.00

☐  Flag question

Question text

Develop a Python program to copy the contents of one file to another file.

Description:

1. Input:

- Source file and destination file names.

2. Output:

- The content of the source file copied to the destination file.

For example:

| Test | Input | Result |
|---|---------------------------|--|
| with open('output1.txt', 'r') as file: text = file.read() print(text) | input1.txt output1.txt | This is the source file. It contains multiple lines of text. Here is another line. |

Answer:(penalty regime: 0 %)

```
i = input()
o = input()
with open(i,'r') as f:
    with open(o,'a') as
f1:
    f1.write(f.read())
```

Feedback

| Test | Input | Expected | Got |
|---|------------------------|--|--|
| with open('output1.txt', 'r') as file: text = file.read() print(text) | input1.txt output1.txt | This is the source file. It contains multiple lines of text. Here is another line. | This is the source file. It contains multiple lines of text. Here is another line. |
| with open('output2.txt', 'r') as file: text = file.read() print(text) | input2.txt output2.txt | Hello, world! Python programming is amazing. Let's copy this text to another file. | Hello, world! Python programming is amazing. Let's copy this text to another file. |
| with open('output3.txt', 'r') as file: text = file.read() print(text) | input3.txt output3.txt | Single line. | Single line. |

Passed all tests!
Correct
Marks for this submission: 1.00/1.00.

Question 7

Correct
Mark 1.00 out of 1.00
Flag question

Question text

Develop a Python program to read a specific line from a text file based on a given line number.

Description:

- 1. Input:
A text file with multiple lines.
A line number to read.
- 2. Output:
The content of the specified line.

input1.txt:
Line one.
Line two.
Line three.
Line four.

For example:

| Input | Result |
|--------------|-------------|
| input1.txt 3 | Line three. |

Answer:(penalty regime: 0 %)

```
i = input()
n=int(input())
with open(i,'r') as f:
    l=f.readlines()
print(l[n-1])
```

Feedback

| Input | Expected | Got |
|-----------------|-------------------------|-----|
| input1.txt 3 | Line three. Line three. | |
| input2.txt 3 | Line C. Line C. | |

Passed all tests!


Correct

Marks for this submission: 1.00/1.00.

Question 8

Correct

Mark 1.00 out of 1.00

☐  Flag question

Question text

Create a Python program to write to a specific line in a text file, replacing the existing content of that line.

Description:

1. **Input:**
 - A text file with multiple lines.
 - A line number to write to.
 - New content for the specified line.
2. **Output:**
 - The updated file with the specified line replaced by the new content in file "output.txt".

Example:

- **Input File Content:**

"Line one.
Line two.
Line three.
Line four."
2

Updated line two.

Output:

Line one.
Updated line two.
Line three.
Line four.

For example:

| Test | Input | Result |
|--|--------------------------------------|---|
| with open('output.txt', 'r') as file: text = file.read() print(text) | input1.txt 2 Updated line two. | Line one. Updated line two. Line three. Line four. |

Answer:(penalty regime: 0 %)

```
i = input()
n=int(input())
s=input()
with open(i,'r') as f:
    l=f.readlines()
l[n-1]=s+'\n'
with
open('output.txt','w')
as f:
    f.writelines(l)
```

Feedback

| Test | Input | Expected | Got |
|--|--------------------------------------|---|---|
| with open('output.txt', 'r') as file: text = file.read() print(text) | input1.txt 2 Updated line two. | Line one. Updated line two. Line three. Line four. | Line one. Updated line two. Line three. Line four. |
| with open('output.txt', 'r') as file: text = file.read() print(text) | input2.txt 2 Line B Updated. | Line A. Line B Updated. Line C. | Line A. Line B Updated. Line C. |

Passed all tests!
Correct
Marks for this submission: 1.00/1.00.

Question 9

Correct
Mark 1.00 out of 1.00
☐ Flag question

Question text

Write a Python program to reverse the contents of a specific line in a text file based on a given line number.

Description:

- 1. **Input:**
 - A text file with multiple lines.
 - A line number to reverse.
- 2. **Output:**
 - The updated file with the specified line's contents reversed in file "output.txt".

Example:

- **Input File Content:**
"Line one.
Line two.
Line three.
Line four."
3

Output:

Line one.
Line two.
eerht eniL.
Line four.

For example:

| Test | Input | Result |
|--|-----------------|---|
| with open('output.txt', 'r') as file: text = file.read() print(text) | input1.txt 3 | Line one. Line two. eerht eniL. Line four. |

Answer:(penalty regime: 0 %)

```
fi = input()
n = int(input())
with open(fi,'r') as f:
    l=f.readlines()
l[n-1]=l[n-1][::-1]
l[n-1]=l[n-1][2:]+\n'
with
open('output.txt','w')
as f:
    f.writelines(l)
```

Feedback

| Test | Input | Expected | Got |
|--|-----------------|---|---|
| with open('output.txt', 'r') as file: text = file.read() print(text) | input1.txt 3 | Line one. Line two. eerht eniL. Line four. | Line one. Line two. eerht eniL. Line four. |
| with open('output.txt', 'r') as file: text = file.read() print(text) | input2.txt 2 | Line A. B eniL. Line C. | Line A. B eniL. Line C. |

Passed all tests!

Correct
Marks for this submission: 1.00/1.00.

Question 10

Correct
Mark 1.00 out of 1.00
☐ Flag question

Question text

Write a Python program to append a new line at a specific position in a text file, shifting existing lines down.

Description:

1. Input:
- A text file with multiple lines.
 - A line number to insert the new line at.
 - New content for the new line.
2. Output:
- The updated file with the new line inserted at the specified position, shifting the existing lines down in file "output.txt".

Example:

- Input File Content:

"Line one.
Line two.
Line three.
Line four."
3

Inserted line..

Output:

Line one.
Line two.
Inserted line.
Line three.
Line four.

For example:

| Test | Input | Result |
|--|-----------------------------------|---|
| with open('output.txt', 'r') as file: text = file.read() print(text) | input1.txt 3 Inserted line. | Line one. Line two. Inserted line. Line three. Line four. |

Answer:(penalty regime: 0 %)

```
i = input()
n=int(input())
s=input()
s+='\n'
with open(i,'r') as f:
    l=f.readlines()
if n-1==len(l):
    l[-1]+='\n'
l.insert(n-1,s)

with
open('output.txt','w')
as f:
    f.writelines(l)
```

Feedback

| Test | Input | Expected | Got |
|--|-------------------------------------|---|---|
| with open('output.txt', 'r') as file: text = file.read() print(text) | input1.txt 3 Inserted line. | Line one. Line two. Inserted line. Line three. Line four. | Line one. Line two. Inserted line. Line three. Line four. |
| with open('output.txt', 'r') as file: text = file.read() print(text) | input2.txt 4 Inserted line D. | Line A. Line B. Line C. Inserted line D. | Line A. Line B. Line C. Inserted line D. |

Passed all tests!

Correct
Marks for this submission: 1.00/1.00.

Save the state of the flags

Finish review

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