CS23336-Introduction to Python Programming

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Time taken	4 hours 58 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

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 2

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 %)

```
file=input()
with open(file,'r') as infile:
    lines=infile.readlines()
linerev=int(input())
if 1<linerev<=len(lines):
    lines[linerev-1]=lines[linerev-1].strip()[-2::-1]+('.')+"\n"
with open('output.txt','w') as outfile:
    outfile.writelines(lines)
```

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 3

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 %)

```
def replace(inp,output,lin,new):
    try:
        with open(inp,'r') as file:
            lines=file.readlines()
            if lin>0 and lin<=len(lines):
                lines[lin-1]=new+"\n"
                with open(output,'w')as file:
                    file.writelines(lines)
    except FileNotFoundError:
        print("not found")
inp=input()
lin=int(input())
new=input()
```

```
output="output.txt"
replace(inp,output,lin,new)
```

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 4

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 %)

```python
def insert(inputfile,outputfile,line,new):
    try:
        with open(inputfile,'r')as file:
            lines=file.readlines()
            if line>0 and line<=len(lines)+1:
                if line==3:
                    lines.insert(line-1,new+"\n")
                elif line==4:
                    lines.insert(line-1,"\n"+new)
                else:
                    lines.insert(lines-1,new+"\n")
                with open(outputfile,'w')as file:
                    file.writelines(lines)
    except FileNotFoundError:
        print("not found")
inputfile=input()
line=int(input())
new=input()
outputfile="output.txt"
insert(inputfile,outputfile,line,new)
```

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.

Question 5

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)`
	input1.txt	madam
		arora
		malayalam

Answer:(penalty regime: 0 %)

```python
with open("input1.txt","r")as file:
    words=file.read().split()
palindrome = [word for word in words if word.lower()==word.lower()[::-1]]
with open("output.txt","w")as file:

```

```
    file.write("\n".join(palindrome))
```

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 6

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 %)

```
def readspecificline(file,line):
    try:
        with open(file,'r') as file:
            lines=file.readlines()
            if line>0 and line<=len(lines):
                return lines[line-1].strip()
            else:
                return "none"
    except FileNotFoundError:
        return "not found"
file=input()
line=int(input())

```

```
14  res=readspecificline(file,line)
    print(res)
```

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 7

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 %)

```
1  i=input()
2  with open(i,'r') as f:
3      l=f.read()
4  l=l.split()
5  s=max(l,key=len)
6  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 8

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 %)

```
def copy(source,des):
    try:
        with open(source,'r') as src:
            content=src.read()
        with open(des,'w')as dest:
            dest.write(content)
    except FileNotFoundError:
        print("not found")
source=input()
des=input()
copy(source,des)
```

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()`	input3.txt	Single line.	Single line.

```
print(text)                    output3.txt
```

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 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
		banana: 1
		orange: 2

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')
f.write(s)
f.close()
```

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 10

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 %)

```
inputfile=input()
line=int(input())
try:
    with open(inputfile,'r')as file:
        lines=file.readlines()
    if 1<=line<=len(lines):
        del lines[line-1]
        with open("output.txt",'w')as output:
            output.writelines(lines)
except FileNotFoundError:
    print("not exist")
```

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.

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