RAJALAKSHMI ENGINEERING COLLEGE
An AUTONOMOUS Institution
Affiliated to ANNA UNIVERSITY, Chennai

REC-OCATS-1

CS23336-Introduction to Python Programming

Started on	Sunday, 17 November 2024, 2:58 PM
State	Finished
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Time taken	35 mins 34 secs
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 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 %)

```
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 2

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 3

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 4

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 5

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()`	input2.txt 2	Line A. Line B Updated.	Line A. Line B Updated.

```
print(text)                    Line B Updated.   Line C.          Line C.
```

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

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 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 %)

```
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 8

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.

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.lo
wer)
d={}
for i in l:

d[i.lower()]=str(l.cou
nt(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 10

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.

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