STRING MANIPULATIONS

Instructions:

Please share your answers filled inline in the word document. Submit code files wherever applicable.

Please ensure you update all the details:

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Topic: Data Pre-Processing

Problem Statement:

It is obvious that as part of data analysis, we encounter a lot of text data which is a collection of strings that in turn is a sequence of characters. Access the text data and manipulate it as per our requirements. you can go through this link for further assistance:

1. Create a string "Grow Gratitude".

Code for the following tasks:

- a) How do you access the letter "G" of "Growth"?
- b) How do you find the length of the string?
- c) Count how many times "G" is in the string?

```
count_G
string = "Grow Gratitude"
                                                                         length_of_string int
letter_G = string[0]
                                                                         letter_G
length_of_string = len(string)
                                                                                           str 14 Grow Gratitude
                                                                         string
count_G = string.count("G")
letter_G, length_of_string, count_G
                                                                         Console 2/A X
                                                                        Python 3.12.4 | packaged by Anaconda, Inc. | (main, Jun 18
Type "copyright", "credits" or "license" for more informat
                                                                        IPython 8.25.0 -- An enhanced Interactive Python.
                                                                        In [1]: string = "Grow Gratitude"
                                                                        In [2]: letter_G = string[0]
                                                                        In [3]: length_of_string = len(string)
                                                                        In [4]: count_G = string.count("G")
                                                                        In [5]: letter_G, length_of_string, count_G
                                                                                 ('G', 14, 2)
```

2. Create a string "Being aware of a single shortcoming within yourself is far more useful than being aware of a thousand in someone else."

Code for the following:

a) Count the number of characters in the string.

Create the string

quote = "Being aware of a single shortcoming within yourself is far more useful than being aware of a thousand in someone else."

a) Count the number of characters in the string

number_of_characters = len(quote)

number_of_characters

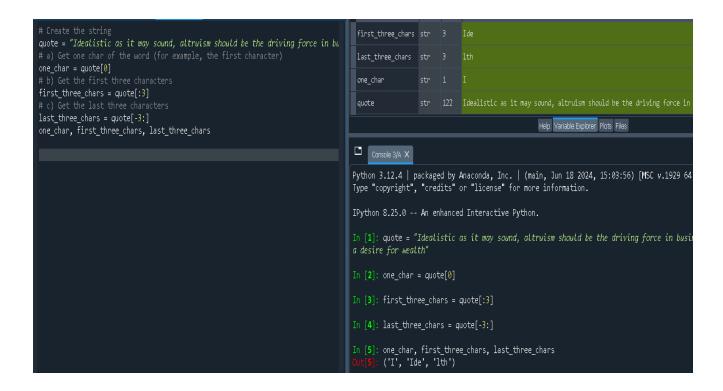
output:-

118

3. Create a string "Idealistic as it may sound, altruism should be the driving force in business, not just competition and a desire for wealth"

Code for the following tasks:

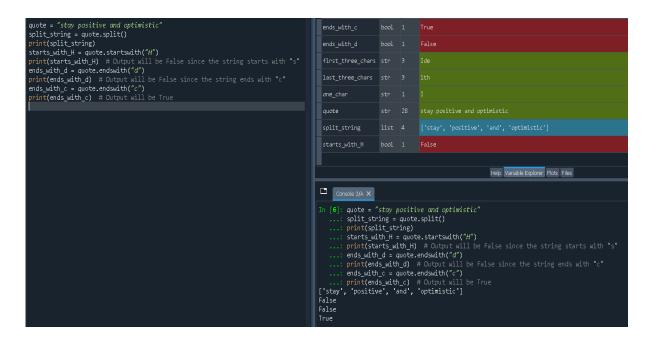
- a) get one char of the word
- b) get the first three char
- c) get the last three char



4. create a string "stay positive and optimistic". Now write a code to split on whitespace.

Write a code to find if:

- a) The string starts with "H"
- b) The string ends with "d"
- c) The string ends with "c"



5. Write a code to print " / one hundred and eight times.

```
print(" # 108)
```

```
Python 3.12.4 | packaged by Anaconda, Inc. | (main, Jun 18 2024, 15:03:56) [MSC v.1929 64 bit (AMD64)]
Type "copyright", "credits" or "license" for more information.

IPython 8.25.0 -- An enhanced Interactive Python.

In [1]:
...: print(" #" * 108)
```

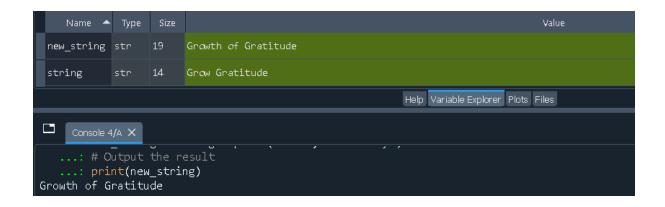
6. Create a string "Grow Gratitude" and write a code to replace "Grow" with "Growth of"

```
# Create the string
string = "Grow Gratitude"

# Replace "Grow" with "Growth of"

new_string = string.replace("Grow", "Growth of")

# Output the result
print(new_string)
```



7. A story was printed in a pdf, which isn't making any sense. i.e.:

".elgnujehtotniffo deps mehtfohtoB .eerfnoilehttesotseporeht no dewangdnanar eh ,ylkciuQ .elbuortninoilehtdecitondnatsapdeklawesuomeht ,nooS .repmihwotdetratsdnatuotegotgnilggurts saw noilehT .eert a tsniagapumihdeityehT .mehthtiwnoilehtkootdnatserofehtotniemacsretnuhwef a ,yad enO .ogmihteldnaecnedifnocs'esuomeht ta dehgualnoilehT ".emevasuoy fi yademosuoyotplehtaergfo eb lliw I ,uoyesimorp I"

- .eerfmihtesotnoilehtdetseuqeryletarepsedesuomehtnehwesuomehttaeottuoba saw eH .yrgnaetiuqpuekow eh dna ,peels s'noilehtdebrutsidsihT
- .nufroftsujydobsihnwoddnapugninnurdetratsesuom a nehwelgnujehtnignipeelsecno saw noil A"

The backward story

backward_story = """.elgnujehtotniffo deps mehtfohtoB .eerfnoilehttesotseporeht no dewangdnanar eh ,ylkciuQ .elbuortninoilehtdecitondnatsapdeklawesuomeht ,nooS

- .repmihwotdetratsdnatuotegotgnilggurts saw noilehT .eert a tsniagapumihdeityehT
- .mehthtiwnoilehtkootdnatserofehtotniemacsretnuhwef a ,yad enO
- .ogmihteldnaecnedifnocs'esuomeht ta dehgualnoilehT ".emevasuoy fi yademosuoyotplehtaergfo eb Iliw I ,uoyesimorp I" .eerfmihtesotnoilehtdetseuqeryletarepsedesuomehtnehwesuomehttaeottuoba saw eH .yrgnaetiuqpuekow eh dna ,peels s'noilehtdebrutsidsihT
- .nufroftsujydobsihnwoddnapugninnurdetratsesuom a nehwelgnujehtnignipeelsecno saw noil A"""

Reverse the story to make it readable

reversed story = backward story[::-1]

Output the readable story

print(reversed_story)

