**PYTHON STRING**

**Level 1 Difficulty: EASY [1 - 5]**

**1-**Initialize a variable containing the string “Triceratops”. Using string operators

* Transform the string into all upper letters
* Transform the string into all lower letters
* Count how many times the letter t occurs in the string
* What about the letter p?
* Find the index corresponding to the letter a

**2-**Write a program that asks the user for their name and country of residence. Display the

input in the following format:

AyhamZaid The Kingdom of Jordan

**3-**Write a program that accepts an arbitrary user input and then lists the number of each

vowel (a, e, i, o, u) in the string. Your output should look something like this:\\

The string 'joijfowijvroijvojq' contains:

- 'a': 0

- 'e': 0

- 'i': 3

- 'o': 4

- 'u': 0

**4-**Write a program that asks the user for their first and last name (use two separate commands

for this

Output : AyhamZaid [AZ]

**5-**Initialize a variable containing the string {\code{"Allosaurus"}}. Using character indices extract the

following substrings:

output:

{"Allo"}

{"osau"}

{"urus"}

{"losauru"}

{"us"}

**Level 2 Difficulty: Medium [6 - 11]**

**6-**Write a program that asks the user for any arbitrary input and returns the number of characters in the input string

**7-**Using the in operator, check whether a Letter or symbol is a part of Word or not

EX:

"b" is part of {"Jordan"}

"a" is part of {"Amman"}

"t" is part of {"Egypt"}

{" "} is part of {"Khuraibet Al-Souq"}}

\item Request a string and a character from the user then check whether the character is contained in the string.

**8-**Attack on Titan is axxxxxxxxxxxxxJapanese manga series written and illustrated by Hajime Isayama. It is set in a world where humanity lives inside cities surrounded byxxxxxxxxxxxxxxx enormous walls that protect them from gigantic man-eating humanoids referred to as Titans; the xxxxxxxxxxxxxxxstory follows Eren Yeager, who vows to exterminate the Titans after a Titan brings about the destruction of his hometown and the death of hisxxxxxxxxxxxxxxxx mother. Attack on Titan has beenxxxxxxxxxxxxxxxxxxx serialized in Kodansha's monthly Bessatsu Shōnen Magazine since September 2009xxxxxxxxxxxxxxxxxx and collected into 33 tankōbon volumes as of January 2021.

Removing a character all together is the same as replacing it with an empty string

**9-**Ask the user to give their full name. You will obtain input strings looking like this: {"Ayham Zaid"}}.

Take the strings and extract the first letter of the first name and the first letter of the last

name and display the entire name in the following format:

Ayham Zaid[AZ]}}

Where the initials are added in brackets after the name.

10-Ask the user to get a string made of the first 2 and the last 2 chars from a given string. If the string length is less than 2, return instead of the empty string

EX: input = Orange output = Orge

EX: input = me output = meme

11- Write a Python program to remove the nth index character from a nonempty string.

EX : input Ayham : output : yham

EX : input Ayham : output : Aham

EX : input Ayham : output : Ayhm

**Level 3 Difficulty: Hard [12 - 15]**

**12-**Write a program that asks the user to give you a string and then reverses it with one command.

**13-**Write a code that asks the user how many animals of a specific type (cow, pig, horse, goat, dog, and cat) are on a farm. Then, display the information you have gathered in the following format

{"There are 50 cows, 30 pigs, 3 horses, 3 goats, 2 dogs, and 3 cats on the farm."}}

**14-**Write a Python program to remove the characters which have odd index values of a given string.

**15-**Let us set up the variable NameLess

NameLess= "abcdef"

Exercise 1: Setup variable and print it out.

String content a b c d e f

String index from left 0 1 2 3 4 5

String index from right -6 -5 -4 -3 -2 -1

print(NameLess)

The most basic print is to print a whole string.

Output: abcdef

print(NameLess[0:3])

Prints characters 0 to 3.

Output: abc

print(NameLess[3::])

Prints from character 3 to the end.

Output: def

print(NameLess[0:6:2])

The third part of the command is the step. This example prints every alternate character.

Output: ace

print(NameLess[-1:-7:-1]) #prints every character backwards

We can start at the right side of the string and work backwards. -1 is the last character of the string.

Output: fedcba

print(NameLess[0:-2])

We can also print until -2 from the end.

Output: abcd

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