

# WEEK 4 - ASSIGNMENT 3

## TUPLES AND STRINGS

### NOTE:

- No need to submit anywhere, just keep track of all the PDF you made in a specific folder.
- Compare your solution with the solution I'll provide, in case of doubts, kindly reach out to me.
- You may get assignment solution in format of PDF or VIDEO solution, depending on the difficulty level.

**Q1.** Write a Python program to get the 4th element from the last element of a tuple.

**Q2.** Write a Python program to find repeated items in a tuple.

**Q3.** Write a Python program to check whether an element exists within a tuple. Ask something from user, if that exists in tuple, then print "YES" else print "NO".

**Q4.** Write a Python program to reverse a tuple.

**Q5.** Write a Python program to check if a string has at least one letter and one number. If it has at least one letter and one number then print YES else print NO.

**Q6.** Write a python program to ask a string from user. Then count the number of vowels and number of consonants in that string.

**(Make sure there are no spaces in string when you enter in terminal and also do not type any special characters except from alphabets)**

**Q7.** Write a python program to ask a string from user. Then count the number of vowels and number of consonants in that string.

**(User can type anything including symbols, spaces or anything else)**

**Q8.** Ask a string from user. Print the string with first 2 letters and last 2 letters.

**Example string:** aeroplane

**Output:** aene

**If length is less than 3, print “INVALID”**

**Q9.** Write a python program to only print second half of the string. Ask string from user.

**Example string:** aeroplane

**Output:** lane

**Example string:** delhi

**Output:** hi

**Example string:** pavbhaji

**Output:** aji

**Q10.** Ask a string from user. Print how the count of alphabets (a-z or A-Z) in that string.

**Q11.** Ask a string from user. Print how many spaces are there in that string.

**Q12.** Ask a string from user. Print how many characters are there which are not alphabets.

**Example 1:** abc%\$#gyhy

**Output:** 3

**Example 2:** AB788&\*(^%&\*%^&aaaa

**Output:** 13

**Example 3:** 1233^&\*( \* 0000011

**Output:** 22

**Example 4:** abcdABCD

**Output: 0**

**Q13.** Ask a string from user. Print the count of capital alphabets, small alphabets, spaces, digits and then symbols (whatever are left, count them in symbols).