

CS105 - Homework (1)

Assignment Date : 09.3.2023 9.00 AM

Deadline : 17.3.2023 11.59 PM

- This assessment must be prepared and finalized individually.
- The penalty for teamwork or copying source code from others is -100.
- You must upload your project into LMS as an archive file.

Question 1:

Write a program that creates a new two-dimensional array from another two-dimensional array. The rows of the new array must contain the rows of the first array that all elements non-zero. The elements in the new array should appear in the same order as the order in which they appeared in the original array values. Your program should prompts the user to enter size and and elements of the first array and should print new array on the screen

Example

If original array is `{{2, 1, 0},`
`{1, 3, 2},`
`{0, 0, 0},`
`{4, 5, 6}};`

Then the new array must be

`{{1, 3, 2},`
`{4, 5, 6}}`

Question 2:

Assume that the letters A, E, I, O, and U are vowels. Write a program that prompts the user to enter a string, and displays the number of vowels and consonants in the string.

Sample Output:

Enter a string: Programming is fun

The number of vowels is 5

The number of consonants is 11

Hint: use substring method of String class. See link below:

<https://www.tutorialspoint.com/Java-String-substring-Method-example>