Description of the Project

The homework 2 problem 5 program uses some common methods and functions to achieve what it is asked for. First, it reads the files and store each line in one array. Second, it uses a for loop to split each line in the array to a sentence and its number, where the sentence and the number are stored as pair in another array called "sentences". In the same for loop, it creates another array with same structure as the "sentences" but instead of sentences, it stores the tokens of each word. Third, another for loop adds each new word it encounters as it moves through the tokens to a new array called "dict" where it contains all unique words (dictionary). Forth, using the length of the dictionary and the length of tokenized sentences array "tokenized", frequency matrix is created. Fifth, in a for loop, each word in the dictionary is counted in each sentence where the matrix holds the frequency if each word in each sentence. The matrix row presents the frequencies for each sentence and the columns present the frequency of each word but in different sentences. Lastly, output is printed as described in the readme file.

Saeed Alneyadi.11