exam02.php 7/20/24, 2:04 PM

personal-website/programming-exam/exam02/exam02.php

```
1 <?php
2
  // Read the file and store the words in an array
   $words = file('words.txt', FILE_IGNORE_NEW_LINES | FILE_SKIP_EMPTY_LINES);
 3
4
5
   // Initialize the array to store the words by the number of vowels
   $vowelCounts = []:
7
8
   // Define the vowels that will be used to check the words
9
   $vowels = ['a', 'e', 'i', 'o', 'u'];
10
   // Go over each word and count the vowels
11
12
   foreach ($words as $word) {
13
       // Initialize the count of vowels for the current word
14
15
       scount = 0;
16
       // Convert the word to lowercase
17
        $currentWord = strtolower($word);
18
19
20
       // Go over each character in the word and check if it is a vowel
21
        foreach (str split($currentWord) as $char) {
22
23
            // If the character is a vowel, increment the count
24
            if (in array($char, $vowels)) {
25
                $count++;
26
            }
27
        }
28
29
        // Store the word in the array based on the number of vowels
30
        $vowelCounts[$count][] = $word;
31
   }
32
33
   // Sort the array by the number of vowels (Found on w3schools)
34
   ksort($vowelCounts);
35
36
   // Output the array as JSON
37
   header('Content-Type: application/json');
   echo json_encode($vowelCounts);
38
39
   ?>
40
41
42
```