====================== **Dataset From Original 7 words** ======================

As the words are randomly generated by switching the letters of words, we again test the network on 5,000 words which were generated by original 7 words used to train the network.

This time, output file was a bit modified so that it shows which words were wrongly classified. Checking **outputs.txt**:

A picture containing text, electronics

Description automatically generated

Only word “nigthla” was wrongly classified as “nice” out of 5,000 words.

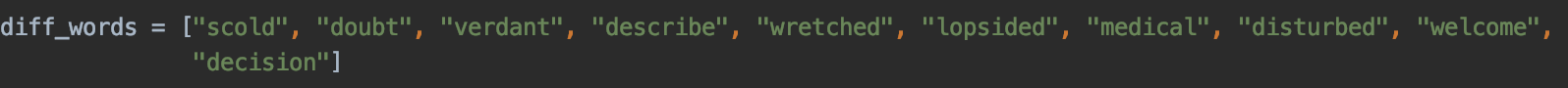
Finding this word inside the outputs, we see that network regarded this word as first word in original words list, which is “nice”:



====================== **Dataset From Different 10 words** ====================

We now test our network on dataset not generated from the same word list used for training.

New words list is as below:



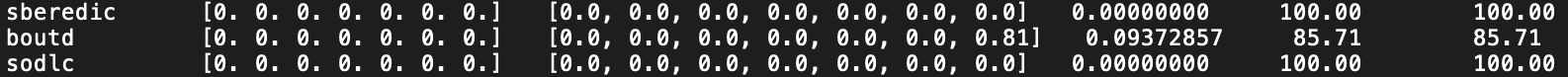
We generate 5,000 words out of these new 10 words, and then test our network on these words. Checking **outputs\_different\_words.txt:**

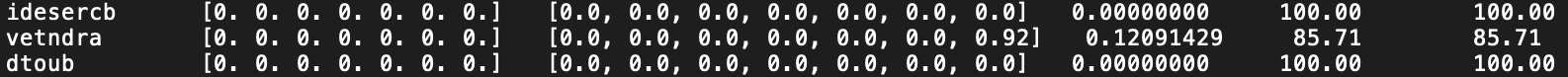
A picture containing graphical user interface

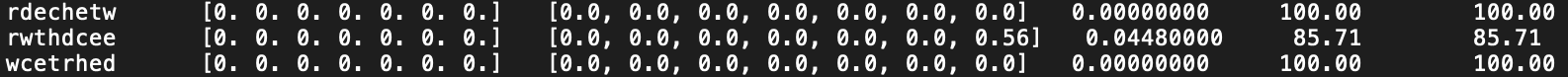
Description automatically generated

Apparently, out of 5,000 newly generated words, our network wrongly classified 3 words. Surprisingly, network regarded all 3 words as “found” from our original list.

Finding the wrongly classified words inside the outputs:







In all 3 cases, last neuron was activated at network output, which indicates the word “found” in original list.