Brief

Python Assignment 1

This was my attempt to solve the problem given in the assignment brief. My initial thoughts after reading the brief was to split project into multiple parts to work through. These were:

- Reading in the names and score values from the files and storing them in a useful data structure.

- Creating all the three letter abbreviations possible for each name based on the rules given.

- Calculating the scores for each abbreviation using the rules and point values given.

- Writing the output to a file.

Opening the trees.txt file, reading each line and storing them in an array was the first thing that was done. The same was then done for the score values in values.txt. A function was then created to generate the abbreviations for each word which consisted of three steps. The first being a function to clean up the names by removing apostrophes, splitting the words and making them uppercase. The second being a function to create abbreviations for each word which creates a list, loops through each word and creates the three letter abbreviation. The third step being to create another list that combines the name with all of the abbreviations for that name so that it can be output neatly in the output file. This was as far as I got.

Testing was done by making the name each of the values in the assignment brief and assigning them to the names variable and comparing the output. The code for this can be found in comments.