##This code is for python version 2.7(the only differences is the print() function if converted to python version 3.6)##

In this question, the Phylogenetic tree has been implemented in Python script. The preorder traversal was used to associate the spicies name with offspring number, then the postorder traversal was used to print out the names of the dependents and the average number of offsprings.

To run the code, be sure that the tree.py and input.txt are in your workspace, then type:
python tree.py input.txt
In terminal.

Output example:

Chimp_Cow 1.25
Chimp_Cow_Bird 3.125
Chimp_Cow_Bird_Toad 201.5625
Chimp_Cow_Bird_Toad_SeaBass 100100.78125