Learning Experiences

Through this project, I learned that the TreeNode class allowed me to manage the individual nodes, and the MorseCodeConverter interface guided the design of conversion methods.

The implement of the trees makes tasks more efficient as it converting Morse code into readable text is much faster with trees because the structure helps you directly navigate to the correct letter. While a dictionary approach would involve searching through all possible codes, a tree allows you to find the correct code quickly by following the left or right branches. I’m struggling with convert expected list doesn’t match as it kept print extra “ “ between "j" and "b" when I test for the List of ([h, s, v, i, f, u, e, l, r, a, p, w, j, b, d, x, n, c, k, y, t, z, g, q, m, o]) I couldn’t find solution for that one but when I try insert the file test from file and direct type with morse code it is working just fine.