Problem 1 Got expected values of Dn of 1/2 for all three dimensions. Present error decreases significantly from N=5000 to N=10000 runs.

Problem 2 Had an issue with getting tensorflow probability to work, fixed it by uninstalling tf-nighty, tfp-nightly and tfp, and then reinstalling tfp stable version. The issue was the the clash of versions. Got the program to run as expected.