1. ***Structure of a liquid – Radial distribution function***: Use the LAMMPS script provided to plot the radial distribution function for a 3D Lennard-Jones fluid.

   See how the rdf plot changes with change in the cut-off distance. Change the cut-off values from 2 – 5 in steps of 0.5.

   Evaluate the average number of atoms in the first shell for any reference atom, in other words, what is the average number of nearest neighbours for an atom in a LJ fluid.

   Today's commands to learn:

   1. `compute rdf`

   2. `fix ave/time`