

Write a program that reads the NASA polynomials from the attached therm.dat file.
The program should be capable of calculating the following

1. Pure species thermodynamic properties. $C_{p,k}, H_k, S_k$
2. Mixture properties C_p, H, S
3. The chemical species and their composition that are present in the mixture and the T, p , conditions may be read from an input file or from user input in the form of a named tuple or Dictionary