Input	Stage	Description	Status
Data File	**Parsing**	Read and verify the data file and store the Gibbs energy coefficient of different species	✓
Temperature, Pressure, Composition	**Input**	Read the parameters - temperature, pressure and composition	✓
	Initialisation	Use a linear approximation to find initial assemblage using *levelling* method	✓
	Gibbs Energy Minimisation	Find the stable phases by minimising the Gibbs energy of the non-linear system	Crux of the work. In progress
	Global Optimisation	Use non-convex optimisation to find the global minimum for complex systems	
Assemblage, Chem. Potenial	**Output**	Pass the output such as chemical potential, Gibbs energy, etc.	✓