

"Subatomic Particle Simulations" codes developed by Sahasrara Research ([www.sahasrararesearch.in](http://www.sahasrararesearch.in))

#### Notes:

1. As open-source initiative, users are requested to share your contributions and we share it in [www.sahasrararesearch.in](http://www.sahasrararesearch.in). Please contact us at [shanmugam138@gmail.com](mailto:shanmugam138@gmail.com)
2. All codes were written in Fortran language.
3. Main file name is md.f90 (for Molecular dynamics algorithms) and mc.f90 (for Monte Carlo algorithms).
4. Corresponding module files used can be found in md.f90 and mc.90 files.
5. Makefile was not included in the download folder and users are requested to create their own Makefile by looking into md.90 or in mc.90 files.
6. Trajectories are stored in XYZ format in the file name newmd.xyz (for MD algorithms) and MC.xyz (for MC algorithms).
7. For MD algorithms, module file for calculating of potential, force acting and acceleration acting on particles is acc.f90

Hope it helps and have fun in your research!

For more information, visit [www.sahasrararesearch.in](http://www.sahasrararesearch.in) or contact at [shanmugam138@gmail.com](mailto:shanmugam138@gmail.com)