Lecture 3. Quantum Mechanics

- Download course materials
  https://mulan.swmed.edu/lecture3.tar.gz

  To unpack the tar.gz ball, run the following command:
  tar xvfz lecture3.tar.gz
  A new directory, lecture3 will be created

- **Install the following software packages**
  1. Avogadro-1
     https://sourceforge.net/projects/avogadro/files/avogadro/1.1.1/

- Read the book chapter of "Molecular Modelling: Principles and Applications (2nd Edition)" entitled "An Introduction to Computational Quantum Mechanics" in lecture3/reading

- Go through the Gaussian 09 tutorials
  1. Run Gaussian 09 tutorial in lecture3/g09_tutorial
  2. Use Avogadro to display the Gaussian outputs (orbitals, electron density, vibrational modes, etc.)