1. A minor inconvenience if you chose to solve this exercise in Python: the mcholmz function for LDL decomposition is written for MATLAB. It shouldn't be too difficult to rewrite the function in Python.
2. Well/ill-conditioned quadratic problem. Use the following function and initial guess:

$$f(x) = \frac{1}{2} x^T H x$$
$$x_0 = (1,1,1,1,1,1,1,1,1,1)$$

   Use the Hessians in the h.mat file (attached to the homework). The file contains two Hessians.
3. Ignore the second remark from the homework file – submit a pdf document.