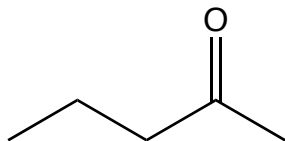1. Predict the ^1H NMR (chemical shift, splitting, and integration for each signal) and ^{13}C NMR spectrum (chemical shift) of the following compounds.

   a)

   b)