Assignment 6
Definite Clause Grammars

In this assignment, you will have to write a minimal definite clause grammar (DCG) in prolog with the following vocabulary:

> *la, las, el, los, un, una, unos, unas, perra, perras, perro, perros, hueso, huesos, estudiante, bonita, bonito, bonitas, bonitos, ladra, ladran, muerde, muerden*

The grammar should accept all grammatical sentences, even if they are meaningless (for example, it should accept "*la estudiante bonita muerde una perra*"), but it should not accept ungrammatical entries such as "*los perras muerden un estudiante*" o "*un perro ladra un hueso*". Note that you will need to distinguish between transitive verbs (such as "*muerde*") and intransitive verbs (such as "*ladra*").

None of the rules of the grammar can contain the words in the vocabulary. Instead, word entries should be listed as facts (see the link below for an example).

> http://www.learnprolognow.org/lpnpage.php?pagetype=html&pageid=lpn-htmlse33

The grade for this assignment will take into consideration three aspects:
1. whether the grammar generates all the sentences that should be generated,
2. whether the grammar generates sentences that should not be generated,
3. whether the grammar has a minimal number of rules.