Natural Language Understanding Course First Assignment

Ali Akay

Trento University

**Exercise 1:** For the first exercise the *dep\_path* function is used.This function extract the dependancy path for every word starting from ROOT. *Token.text* gives us the token and *span.root* gives us the ROOT of the sentence.

**Exercises 2-3:** The subtree of a token is the token itself and all its descendants nodes. Dependency Tree is created with *to\_nltk\_tree()*function.After that,to find the subtree of a token *token.subtree* is used. Then list of subtrees created and checked with the example list of words.

**Exercise 4:** head() function is used to return head of span. Basically we have to give a sentence and the function makes it span then head of span can find easily with span.root

**Exercise 5:** dep\_ give us the dependency of the word. In this exercise the function extract if it has subject, direct object and indirect object