Ahsanullah University of Science and Technology
Department of Computer Science and Engineering (CSE)

CSE4108: Artificial Intelligence Lab, Spring 2018

Lab Group: B2   Offline: 2   Topic: Intermediate Prolog

Task 1. Do the assignment-1 again, but this time in a different way.

- Instead of just writing the terms and syntax as mere rules and facts, write them as a context-free grammar using recursions, lists etc. as shown in the class.

- Instead of having two *isvalidsyntax* functors with different arity, write only one with arity 1. This time, the argument will be a list.

$$? - isValidSentence([Thanos, destroy, "TonyStark"]).$$

false

$$? - isValidSentence([]"CaptainAmerica", wields, shield]).$$

true

$$? - isValidSentence([Thanos, is, from, Titan]).$$

true

$$? - isValidSentence([]Titan, is, from, Thanos]).$$

false

$$? - isValidSentence([Nebula, will, fight, Thanos, vigorously]).$$

true

$$? - isValidSentence([Nebula, will, fighting, Thanos, vigorously]).$$

false

Task 2.   Do the task-1 again, but this time in a different way. Instead of context free grammar, apply a definite clause grammar instead.