Assignment 5 (Total marks 15):

Date of posting: 29th Oct, 2018; Submission date: 11th Nov. 2018 by mid night.

Demo: within 2 days after submission

Write a DCG grammar to code the sentences of the following type. Write PROLOG program
1. to parse such sentences and to produce its parse tree along with
2. outputting logical forms

Types of sentences

S.No	INPUT (Eng Sentences)	OUTPUT (LF)
1	Ram is a man	man(ram)
2	God loves Ram	loves(god, ram)
3	Ram eats an apple	eats(ram, apple)
4	Sita drinks water	drinks(sita, water)
5	Every teacher teaches a course	all(X,teacher(X) -->exist(Y, course(Y) /\ teaches(X,Y)))
6	The cat eats a rat	exist(X, cat(X) /\ exist(Y, rat(Y) /\ eats(X,Y))
7	A fat man hates sita	exists(X, fat(X) /\ man(X) /\ hate(X,sita))