SISTER NIVEDITA UNIVERSITY

ARTIFICIAL INTELLIGENCE LAB ASSIGNMENT

SUBMITTED BY: PIYUSH CHANDRA CHANDRA

DEPT- BTECH (CSE), ROLL- 1027

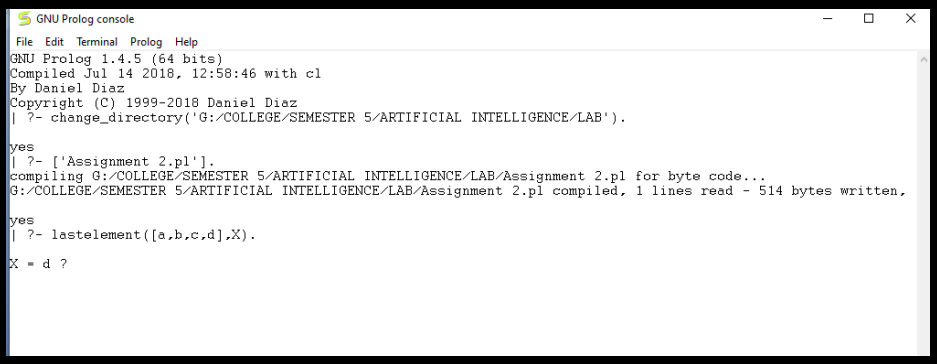
SUBMITTED TO: MOM BANERJEE

ASSIGNMENT 2

18/11/2020 – 23/11/2020

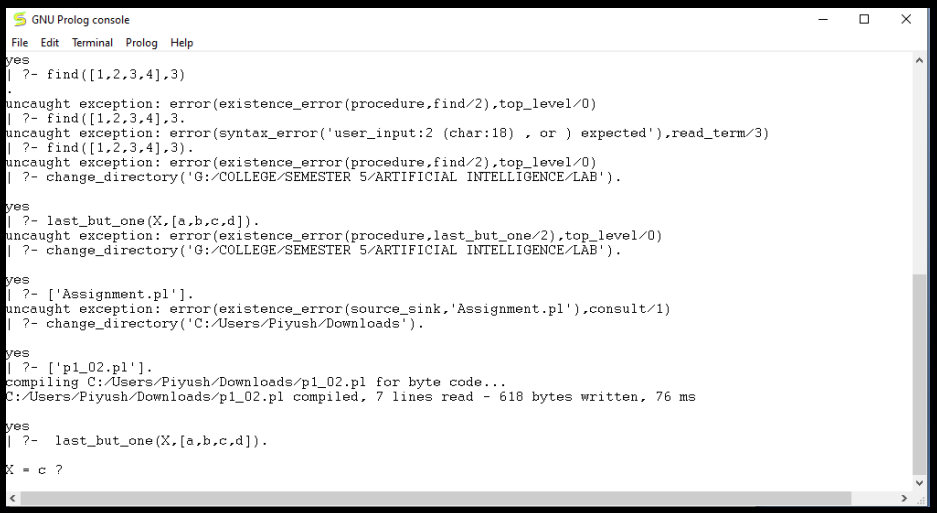
1. Find the last element of a list .

- lastelement([X],X).
  lastelement([_|T],Y):-lastelement(T,Y).



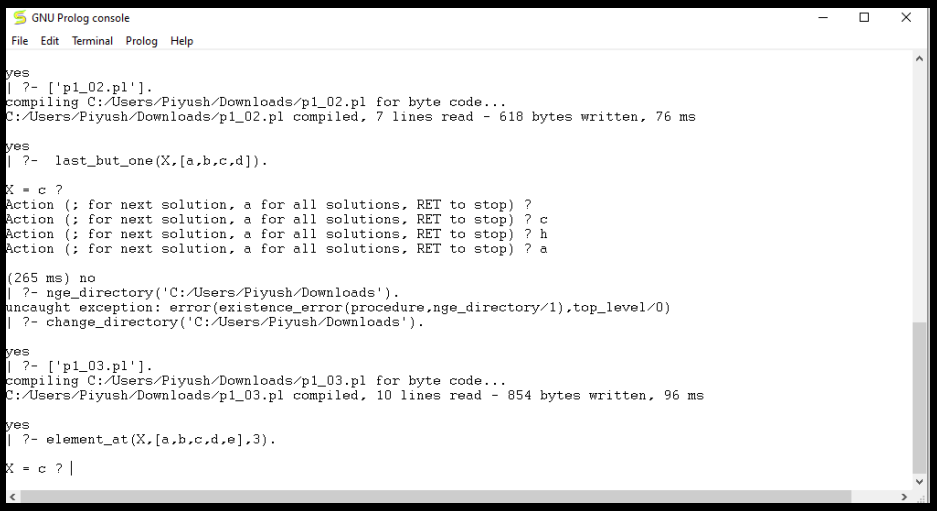
2. Find the last but one element of a list

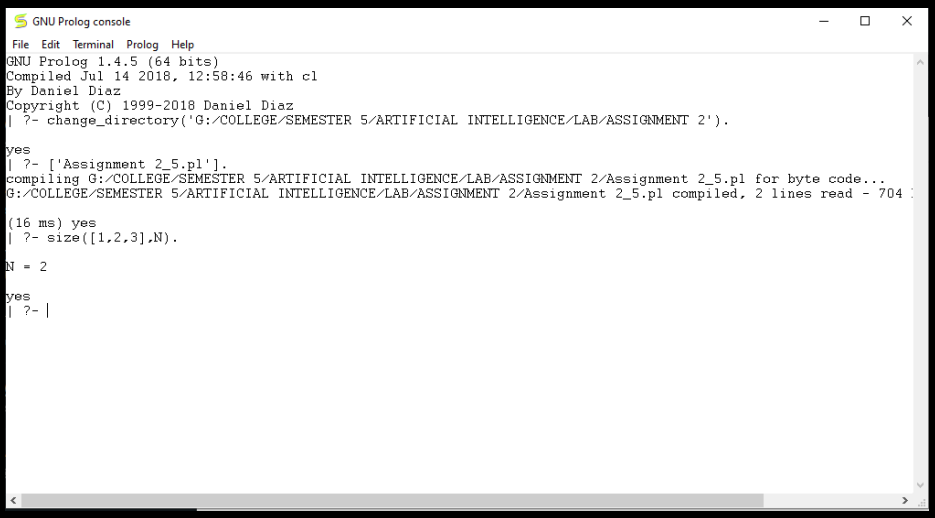
- last_but_one(X,[X,_]).
  last_but_one(X,[_,Y|Ys]) :- last_but_one(X,[Y|Ys]).



3. Find the k th element of a list

- element_at(X,[X|_],1).
  element_at(X,[_|L],K) :- K > 1, K1 is K - 1, element_at(X,L,K1).



4. Find the number of elements of a list excluding head element

- size([],-1).
  size([_|T],N):-size(T,N1),N is N1+1.