Assignment 4 - Report

Files -

NL Interface -

The nl-interface made interpretes any sentence in the english language and makes out necessary input in the form of facts for the prolog file.

For input from the user, the program prompts the user for every particular input and also gives an example of the required input. For some inputs which are absolutely necessary, the code prompts the user multiple times until the required input is obtained.

The code then creates a fact file which is accessed by the prolog program as inputs (facts) and the predictions are then shown to the user.

Facts File -

The facts file created contains the facts as required by the prolog program for the predictions.

Script -

The main prolog file which is the prediction system made for the assignment 1. This consults the facts file for facts, uses them as input and then gives the predictions.

Assignment 1 Script -

This is given so that I can demonstrate the differences between the scripts.

Methodology and NL concepts used -

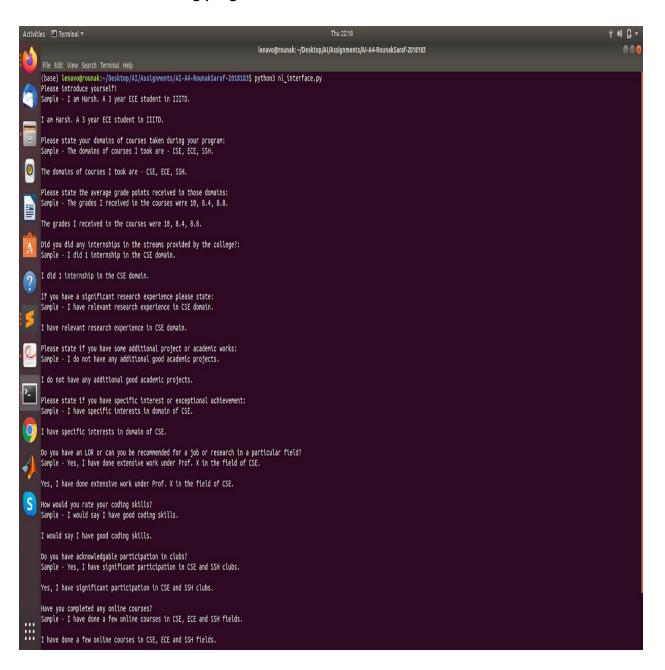
- nltk library
- word tokenize
- sent tokenize
- porter stemmer
- pos_tag

I have tested through sample sentences that would provide the required input for the prolog program and noted their tags. When the user gives input, I check if the word matches with the tag and if it is present in the dictionary containing the bag of inputs.

Concepts dealt with -

Phonetics - dealt with homophones, word boundary, disfluency and phrase boundary. There is semantic analysis also done for some inputs.

Screenshot of the working program -



Screenshot of Facts file created -

