Matthew Silva

Professor Hamel

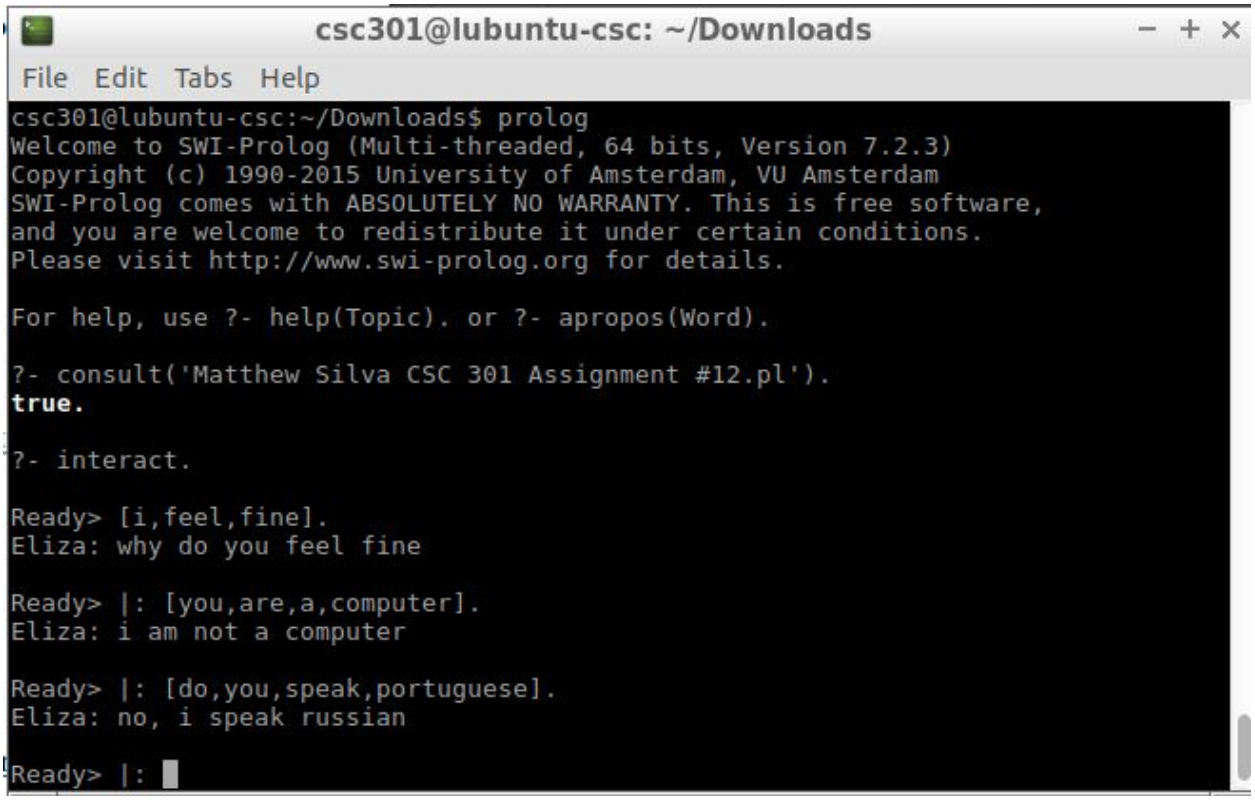
CSC 301

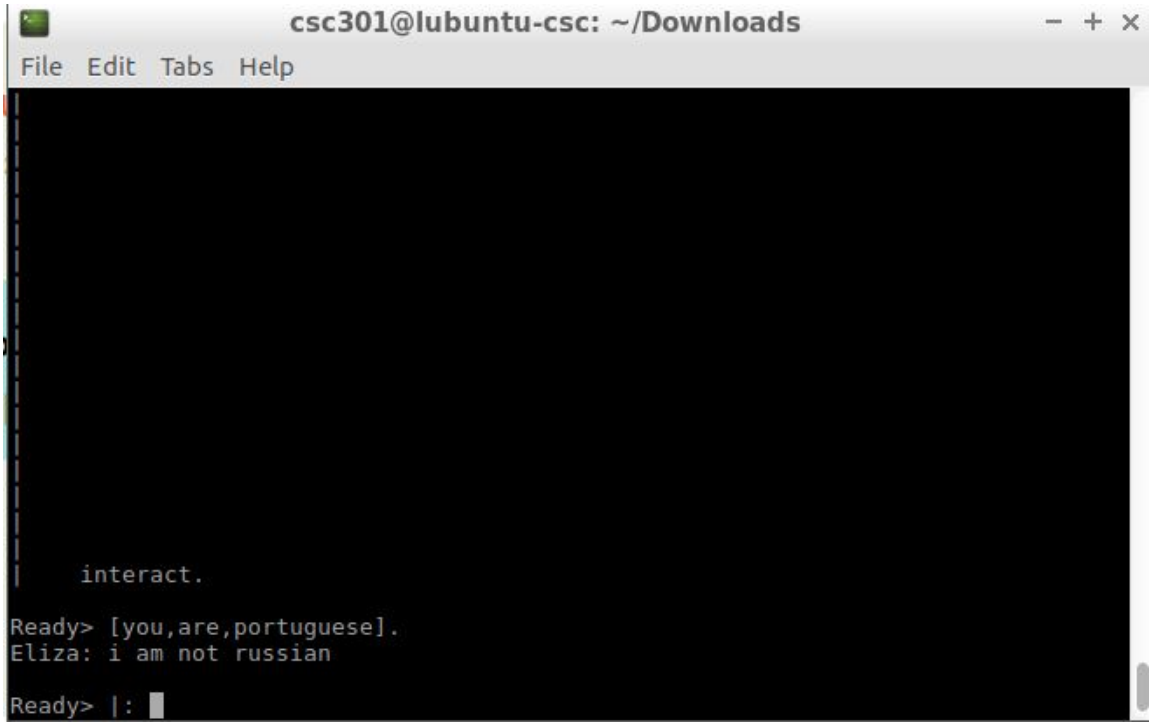
11 December 2017

Assignment #12

Source Code:

```
%Matthew Silva
%Professor Hamel
%CSC 301
%11 December 2017

%Assignment #12

%Interaction loop for collecting/processing user input and writing response output
interact:-
nl,
write('Ready> '),
read(X),
generateResponse(X, Y),
write('Eliza: '),
writeAnswer(Y),
nl,
interact.

%Processes an input list by changing it word by word (if needed) and returns the response
generateResponse([], []).
generateResponse([H|T], Response):- change(H, Changed), generateResponse(T, Next),
append([Changed], Next, Response).

%Changes input words to their appropriate response words.
change('you', 'i').
change('i', 'why do you').
change('are', 'am not').
change('do', 'no,').
change('portuguese', 'russian').
change(X, X):- X \= 'you', X \= 'i', X \= 'are', X \= 'do', X \= 'portuguese'.

%Writes an output list response to the terminal word by word
writeAnswer([]).
writeAnswer([H|T]):- write(H), write(' '), writeAnswer(T).
```


csc301@lubuntu-csc: ~/Downloads
File Edit Tabs Help
csc301@lubuntu-csc:~/Downloads$ prolog
Welcome to SWI-Prolog (Multi-threaded, 64 bits, Version 7.2.3)
Copyright (c) 1990-2015 University of Amsterdam, VU Amsterdam
SWI-Prolog comes with ABSOLUTELY NO WARRANTY. This is free software,
and you are welcome to redistribute it under certain conditions.
Please visit http://www.swi-prolog.org for details.
For help, use ?- help(Topic). or ?- apropos(Word).
?- consult('Matthew Silva CSC 301 Assignment #12.pl').
true.
?- interact.
Ready> [i,feel,fine].
Eliza: why do you feel fine
Ready> |: [you,are,a,computer].
Eliza: i am not a computer
Ready> |: [do,you,speak,portuguese].
Eliza: no, i speak russian
Ready> |:


csc301@lubuntu-csc: ~/Downloads
File Edit Tabs Help
| interact.
Ready> [you,are,portuguese].
Eliza: i am not russian
Ready> |: