

CSC 301 Assignment 12

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In this assignment, you are to write a simple version of Eliza in Prolog. Essentially, the program is to display a prompt that it is ready to accept input. At the prompt, the user should type in an English sentence as a list and your program should respond to this sentence with another English sentence derived from the original user sentence. Here is what an example session with your program might look like:

Ready> [you,are,a,computer]. Eliza: i am not a computer
Ready> [do,you,speak,portuguese]. Eliza: no, i speak russian

Ready>

Trying out your Program

At the minimum, your program should handle the following interactive sessions as indicated: 1.
User sentence: [i,feel,fine], Response: why do you feel fine
2. User sentence: [you,are,a,computer], Response: i am not a computer
3. User sentence: [do,you,speak,portuguese], Response: no, i speak russian

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replyTable(you, 'i' ).
replyTable(i, 'why do you').
replyTable(are, 'am not').
replyTable(do, 'no,').
replyTable(russian, 'portugese').
replyTable(X, X).

reply([], []).
reply([H|T ], Output):-
    replyTable(H, ReplyWord),
    reply(T, OutputSentence),
    Output = [ReplyWord|OutputSentence ].

listToSentence([]).
listToSentence([Word|Sentence]):-
    write(Word),
    write(' '),
    listToSentence(Sentence).

interact:-
    nl,
    write('READY> '),
    read(X),
    reply(X,Y),
    write('ELIZA: '),
    listToSentence(Y),
    nl,

    interact.

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 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, russian].

ELIZA: no, i speak portugese

READY>

Please enter a Prolog term

?- interact.