Member Predicate

Write a predicate member/2 that takes a list as its first argument and an element as its second element. This predicate is to return true if the element appears in the list.

```
member([E|_],E).
member([_|T],E) :- member(T,E).
```

Interaction Loops

Write a program that prompts a user for a list, then reads the list, reverses the elements of the list and then prints out the reversed list to the terminal. It then returns to prompting the user for a new list, etc.

```
interact:-
    nl,
    write('gimme a list> '),
    read(X),
    reverse(X,Y),
    write('this is the reverse: '),
    write(Y),
    nl,

    interact.
```

A Translation Program

Write a program that takes simple English statements and translates them into German. The sentences are given as lists of words.

```prolog
% the dictionary
lookup(logic,logik).
lookup(is,macht).
lookup(fun,spass).
Lookup(A,A).

% the translation procedure
translate([],[]).
translate([Word|Sentence ],German):-
        lookup(Word,GWord),
        translate(Sentence,GSentence),
        German=[GWord|GSentence ].
```

Assignment

- Assignment #7 – see BrightSpace