**-module(lab2).**

**-export([create/1, rcreate/1,reverse/1,filter/2]).**

**Exercise 1**

create(Number) -> create(Number,[]).

create(0, L) -> L;

create(Number, L) ->

create(Number-1, [Number|L]).

**Exercise 2**

rcreate(Number) -> rcreate(1,Number,[]).

rcreate(S,0,L) -> L;

rcreate(Start,Number,L) ->

rcreate(Start+1,Number-1,[Start|L]).

**Exercise 3**

reverse(L) -> reverse(L,[]).

reverse([],R) -> R;

reverse([H|T],R) -> reverse(T,[H|R]).

**Exercise 4**

filter(L,E) -> filter(L,E,[]).

filter([],E,R) -> reverse(R);

filter([H|T],E,R) ->

case H== E of

true -> filter([],E,[H|R]);

false ->filter(T,E,[H|R])

end.