



SWI Prolog

Example

Compare Two Numbers

قسم الذكاء الاصطناعي 2025-2026

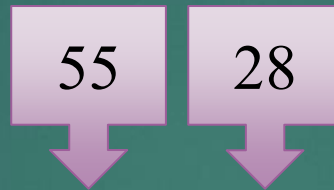
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Write a program in SWI-Prolog to compare two numbers and print whether the first number is greater than, less than, or equal to the second number

55 is greater than **28**
30 is less than **55**
10 is equal to **10**

% Predicate to compare two numbers



55 is greater than 28

compare_numbers(A, B) :-

A > B

,

write(A)

,

write(' is greater than ')

,

write(B)

;

% Predicate to compare two numbers

2

8

2 is less than 8

compare_numbers(A, B) :-

A > B

,

write(A)

,

write(' is greater than ')

,

write(B)

;

A < B

,

write(A)

,

write(' is less than ')

,

write(B)

;

7

7

7 is equal 7

compare_numbers(A, B) :-

A > B

,

write(A)

,

write(' is greater than ')

,

write(B)

;

A < B

,

write(A)

,

write(' is less than ')

,

write(B)

;

A == B

,

write(A)

,

write(' is equal ')

,

write(B)

.

% Predicate to compare two numbers

compare_numbers(A, B) :-

$A > B$, write(A), write(' is greater than '), write(B);

$A < B$, write(A), write(' is less than '), write(B);

$A == B$, write(A), write(' is equal to '), write(B).

Example queries:

?- compare_numbers(98, 28).

?- compare_numbers(5, 10).

?- compare_numbers(70, 70).