PROLOG

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1. Let us consider the following set of facts that describe the mother predicate.

mother(linda, paul).

mother(cathy, andrew).

mother(cathy, laura).

- Define a predicate female(X) which holds iff X is a female

female(linda).
female(cathy).
female(laura).

- Define a predicate sister(X,Y) which holds iff X and Y are sisters

sister(laura,andrew). ***TRUE***
sister(andrew,laura). ***FALSE***

sister(Z,Y) :- mother(X,Z), mother(X,Y), female(Z), female(Y), Z \= Y.

- Implement female and sister in PROLOG

- Provide screenshots

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mother(linda, paul).
mother(cathy, andrew).
mother(cathy, laura).

female(linda).
female(cathy).
female(laura).

sister(Z,Y) :- mother(X,Z), mother(X,Y), female(Z), Z \= Y.
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2. Implement the function g such that g(x) = x+5.

g(x) = x+5.

g(X,Y) :- Y is X+5.