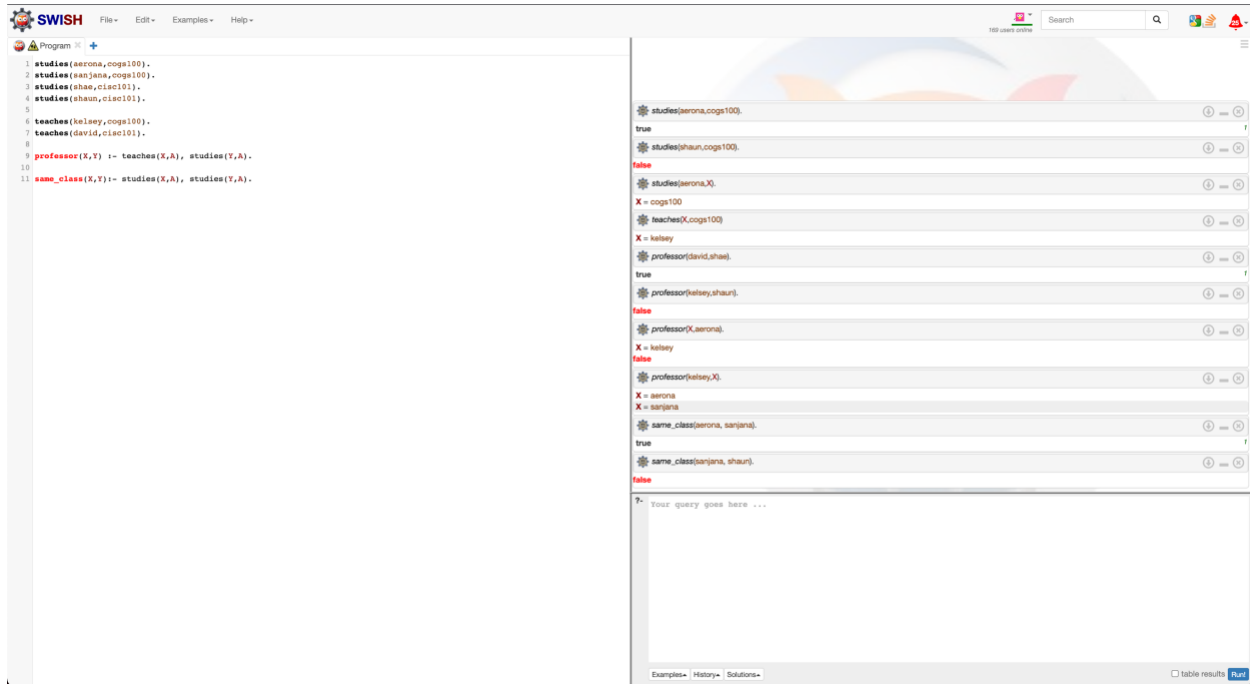# Prolog Assignment
COGS 100 – Spring 2022
Amy Brons 20252295

Screenshot of Prolog (also attached at end of PDF**):**

Code:
```
studies(aerona,cogs100).
studies(sanjana,cogs100).
studies(shae,cisc101).
studies(shaun,cisc101).

teaches(kelsey,cogs100).
teaches(david,cisc101).

professor(X,Y) :- teaches(X,A), studies(Y,A).
same_class(X,Y):- studies(X,A), studies(Y,A).
```

Queries:
```
studies(aerona,cogs100).
studies(shaun,cogs100).
studies(aerona,X).
teaches(X,cogs100).
professor(david,shae).
professor(kelsey,shaun).
professor(X,aerona).
professor(kelsey,X).
same_class(aerona, sanjana).
same_class(sanjana, shaun).
```

Program   +

```prolog
1  studies(aerona,cogs100).
2  studies(sanjana,cogs100).
3  studies(shae,cisc101).
4  studies(shaun,cisc101).
5
6  teaches(kelsey,cogs100).
7  teaches(david,cisc101).
8
9  professor(X,Y) :- teaches(X,A), studies(Y,A).
10
11 same_class(X,Y):- studies(X,A), studies(Y,A).
```

studies(aerona,cogs100).

true   1

studies(shaun,cogs100).

false

studies(aerona,X).

X = cogs100

teaches(X,cogs100)

X = kelsey

professor(david,shae).

true   1

professor(kelsey,shaun).

false

professor(X,aerona).

X = kelsey
false

professor(kelsey,X).

X = aerona
X = sanjana

same_class(aerona, sanjana).

true   1

same_class(sanjana, shaun).

false

?-   Your query goes here ...

Examples   History   Solutions   □ table results   Run!