

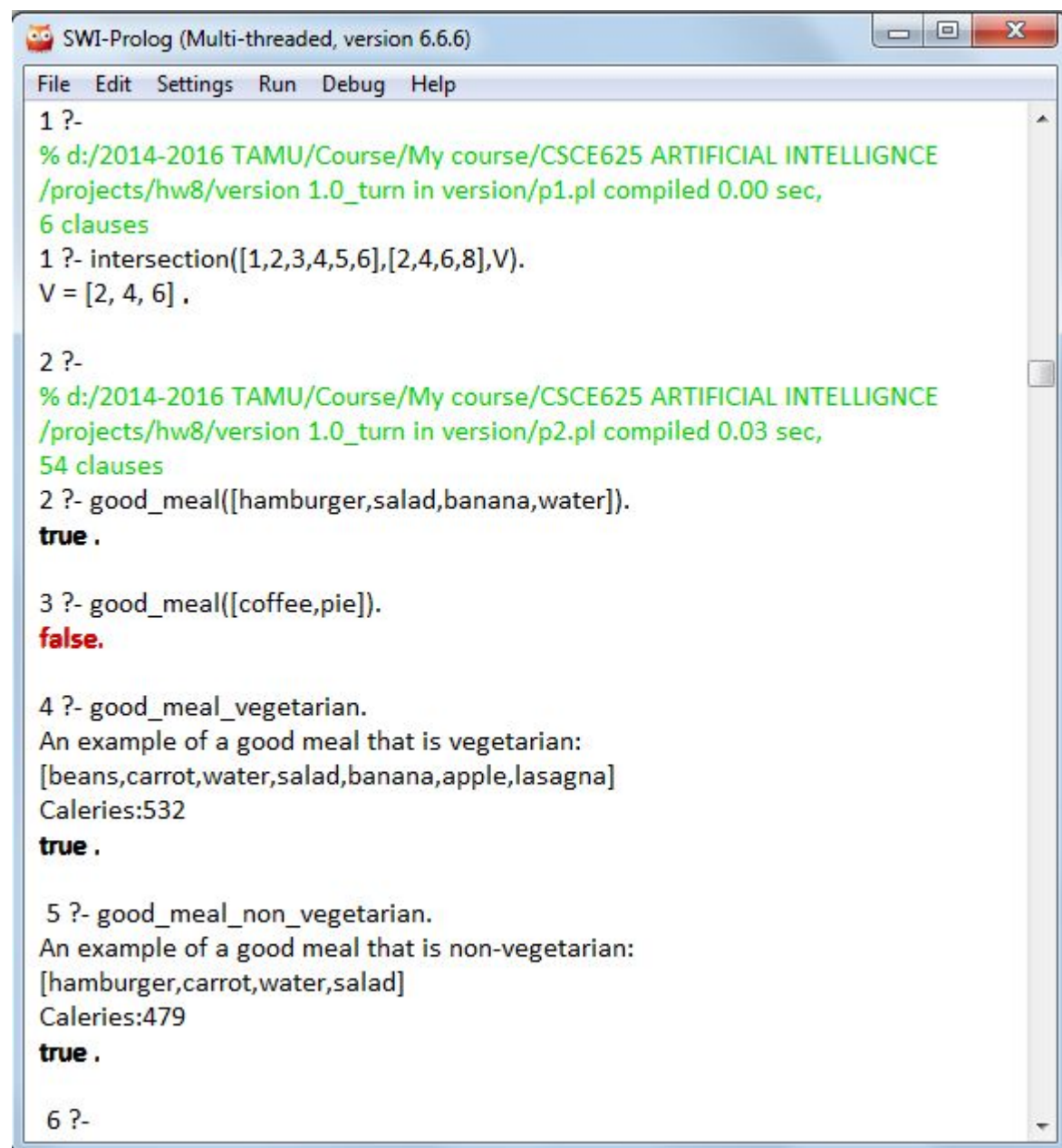
Programing Assignment #8

CSCE 625 - Artificial Intelligence

Spring 2015

Name: Xiaoshu Zhang

Email: kallen5208@gmail.com



```
SWI-Prolog (Multi-threaded, version 6.6.6)
File Edit Settings Run Debug Help
1 ?-
% d:/2014-2016 TAMU/Course/My course/CSCE625 ARTIFICIAL INTELLIGENCE
/projects/hw8/version 1.0_turn in version/p1.pl compiled 0.00 sec,
6 clauses
1 ?- intersection([1,2,3,4,5,6],[2,4,6,8],V).
V = [2, 4, 6] .

2 ?-
% d:/2014-2016 TAMU/Course/My course/CSCE625 ARTIFICIAL INTELLIGENCE
/projects/hw8/version 1.0_turn in version/p2.pl compiled 0.03 sec,
54 clauses
2 ?- good_meal([hamburger,salad,banana,water]).
true .

3 ?- good_meal([coffee,pie]).
false.

4 ?- good_meal_vegetarian.
An example of a good meal that is vegetarian:
[beans,carrot,water,salad,banana,apple,lasagna]
Caleries:532
true .

5 ?- good_meal_non_vegetarian.
An example of a good meal that is non-vegetarian:
[hamburger,carrot,water,salad]
Caleries:479
true .

6 ?-
```

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SWI-Prolog (Multi-threaded, version 6.6.6)
File Edit Settings Run Debug Help
1 ?-
% d:/2014-2016 TAMU/Course/My course/CSCE625 ARTIFICIAL INTELLIGENCE
/projects/hw8/version 1.0_turn in version/p3.pl compiled 0.02 sec,
6 clauses
1 ?- sqrt(0,X).
X = 0 ,

2 ?- sqrt(10,X).
X = 3.162277660168379 ,

3 ?-
% d:/2014-2016 TAMU/Course/My course/CSCE625 ARTIFICIAL INTELLIGENCE
/projects/hw8/version 1.0_turn in version/p4.pl compiled 0.00 sec,
20 clauses
3 ?- queens(A,B,C,D,E).
A=5, B=3, C=1, D=4, E=2;
A=5, B=2, C=4, D=1, E=3;
A=4, B=2, C=5, D=3, E=1;
A=4, B=1, C=3, D=5, E=2;
A=3, B=5, C=2, D=4, E=1;
A=3, B=1, C=4, D=2, E=5;
A=2, B=5, C=3, D=1, E=4;
A=2, B=4, C=1, D=3, E=5;
A=1, B=4, C=2, D=5, E=3;
A=1, B=3, C=5, D=2, E=4;
true.

4 ?- |
```