

Project 3

The source code for this project can be found [here](#).

1.

Queries and output of part 1:

- (a) `?- parent_of(pete, mark).`
true
- (b) `?- parent_of(anne, jenny).`
false
- (c) `?- father_of(X, todd).`
X = matt
- (d) `?- sibling(X, tom).`
X = mark
X = anne
- (e) `?- brother_of(X, lilly).`
X = john
X = frank
- (f) `?- grandparent_of(X, henry).`
X = anne
- (g) `?- sister_of(X, alice).`
false
- (h) `?- brother_of(frank, kate).`
false
- (i) `?- mother_of(X, matt).`
X = anne
- (j) `?- brother_of(mark, anne).`
true

2.

The output (with tracing) for the first call can be found in figure 1 and the output (without tracing) for the second call can be found in figure 2.



Figure 1: First call



Figure 2: Second call

3.

Output for the code can be found in figure 3.



Figure 3: Part 3