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Laboratory Report

CSE-404: Artificial Intelligence Laboratory

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Experiment Name: Implementation Family Tree using Prolog.

Prolog Code:

```
1    male(gf).
2    male(f).
3    male(s).
4    female(gm).
5    female(m).
6    female(d).
7
8    grandfather(s, gf).
9    grandfather(d, gf).
10
11   grandmother(s, gm).
12   grandmother(d, gm).
13
14   father(f, gf).
15   mother(f, gm).
16
17   father(s, f).
18   father(d, f).
19   mother(s, m).
20   mother(d, m).
21
22   grandfather(X, Y) :- male(Y), father(X, Z), father(Z, Y).
23   grandmother(X, Y) :- female(Y), father(X, Z), mother(Z, Y).
24   sister(X, Y) :- male(X), female(Y), father(X, Z), father(Y, Z).
25   brother(X, Y) :- female(X), male(Y), father(X, Z), father(Y, Z).
26
```

Figure 01:Prolog Code