```
Lab-1
        Source Code:
        pod (jan)".
        boy (ned).
        boy (rickon).
       boy (richard).
       boy (benjen).
       boy (madking)
       boy (rhegar).
      dirl (catlyn).
      Pirl (sansa).
      Firl (arya).
      Birl Clyanna).
      girl (dany).
    father (ned, arya).
     father (ned, nickon).
     father ( ned, bran).
    father (ned, Sansa).
   father (mchard, ned).
   father ( richard, benjen).
   father ( richard, lyanno).
    father [ madking, rheader).
   father (madking, dany).
   father ( rheadar, jon).
  mother Ccattyn, arya).
  mother (cattyn, rickon)
  mother (catlyn, bran)
  mother (catty n, sansa).
 mother (lyanna, jon).
parent (X, Y):-father (X, Y); mother (X, Y).
& nondparent (X,Y): - parent (X,Z), parent (Z,Y).
sibling(X,Y): - parent (Z,X), parent (Z,Y).
```

uncte (x, y):- sibling (x, z), father (z, y), boy (x).

Bunt (x, y):- mother (x, z), father (z, y), girl (x).

Sibling

hasband (x, y): - parent (x, z), parent (Y, z), boy (x), girl (y).

brother (X,Y): - sibling (X,Y), boy (X). Sister (X,Y): - sibling (X,Y), girl(X).

Discussion!

In this lab, we learned about PROLOG and how to create FOPL using PROLOG and compile the written program. We also check the truth value for various relations.

Conclusion:

Hence, in this lab, we learn t about creating prepositional logic in PROLOG.