

1. Write a hello world program in prolog.
2. Represent the following facts in prolog.
 - a. Tom is a cat
 - b. Kunal loves to eat Pasta
 - c. Hair is black
 - d. Nawaz loves to play games
 - e. Pratyusha is lazy.
 - f. Lili dances.
 - g. Tom is searching for food.
 - h. Jack loves to play cricket.
 - i. Bili loves to play cricket.
 - j. Ryan is free.
3. Represent the following relations in prolog along with the facts from Q. no. 2.
 - a. Lili is happy if she dances.
 - b. Tom is hungry if he is searching for food.
 - c. Jack and Bili are friends if both of them love to play cricket.
 - d. Ryan will go to play if school is closed, and he is free.

And make queries to see

- Is tom a cat?
 - Does Kunal love to eat pasta?
 - Is Lili happy?
 - Will Ryan go to play?
4. Implement the knowledge base of the following family tree and write rules for determining mother, sister, father, grand father, grandmother, grand parent, uncle, wife and husband.

