# AI LAB ASSIGNMENT - 7

## 21BCE7371 RADHA KRISHNA GARG

#### SOL-1

```
likes(rani, mango).
likes(bilu, candy).
likes(mani, watersports).
girl(lilly).
green(rose).
owns(john, bike).
racer(rossi).
boy(ranga).
batman(rohit).
bowler(starc).
allrounder(hardik).
captain(rohit).
climbs(ram, tree).
drinks(anil, water).
red(apple).
t20 champions(england).
odi champions(england).
test champions(newzealand).
fifa champion(france).
```

```
1 likes(rani, mango).
 2 likes(bilu, candy).
 3 likes(mani, watersports).
 4 girl(lilly).
 5 green(rose).
 6 owns(john, bike).
 7 racer(rossi).
 8 boy(ranga).
 9 batman(rohit).
10 bowler(starc).
11 allrounder(hardik).
12 captain(rohit).
13 climbs(ram, tree).
14 drinks(anil, water).
15 red(apple).
16 t20 champions(england).
17 odi_champions(england).
18 test_champions(newzealand).
19 fifa_champion(france).
20
```

#### **OUTPUT**

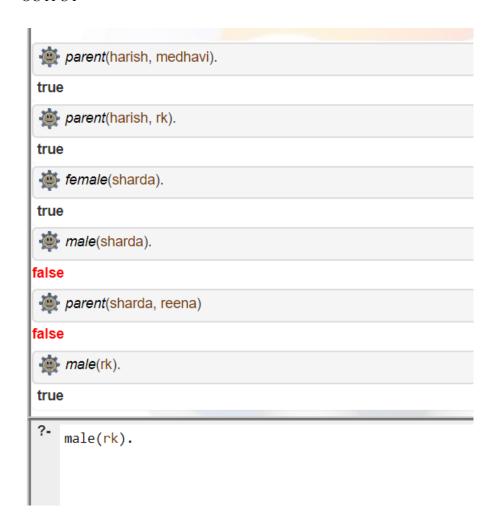


## SOL-2

```
male(nemi).
male(harish).
male(rk).
female(sharda).
female(reena).
female(juhi).
female(medhavi).
parent(nemi, harish).
parent(sharda,harish).
parent(reena, medhavi).
parent(reena, juhi).
parent(harish, rk).
parent(harish, rk).
parent(reena, rk).
```

```
1 male(nemi).
 2 male(harish).
 3 male(rk).
 4 female(sharda).
 5 female(reena).
 6 female(juhi).
 7 female(medhavi).
 8 parent(nemi, harish).
  parent(sharda, harish).
10 parent(harish, medhavi).
11 parent(reena, medhavi).
12 parent(harish, juhi).
13 parent(reena, juhi).
14 parent(harish, rk).
15 parent(reena, rk).
16
```

## **OUTPUT**



### SOL-3

symptom(chicken pox, high fever). symptom(chicken pox, chills). symptom(flu, chills). symptom(cold, mild\_body ache). symptom(flu, severe\_body\_ache). symptom(cold, runny nose). symptom(flu, runny nose). symptom(flu, moderate cough). symptom(chicken pox, high fever). symptom(chicken pox, chills). symptom(flu, chills). symptom(cold, mild body ache). symptom(flu, severe body ache). symptom(cold, runny nose). symptom(flu, runny nose). symptom(flu, moderate cough).

```
1 symptom(chicken_pox, high_fever).
 2 symptom(chicken pox, chills).
 3 symptom(flu, chills).
 4 symptom(cold, mild body ache).
 5 symptom(flu, severe body ache).
 6 symptom(cold, runny_nose).
 7 symptom(flu, runny_nose).
 8 symptom(flu, moderate_cough).
 9 symptom(chicken_pox, high_fever).
10 symptom(chicken_pox, chills).
11 symptom(flu, chills).
12 symptom(cold, mild body ache).
13 symptom(flu, severe body ache).
14 symptom(cold, runny nose).
15 symptom(flu, runny nose).
16 symptom(flu, moderate cough).
```

## **OUTPUT**

```
true

symptom(flu, runny_nose).

true

symptom(flu, moderate_cough).

true

symptom(chicken_pox, high_fever).

true

symptom(cold, chills).

false

symptom(cough, vomit).

false

symptom(flu, severe_body_ache).

true

?- symptom(flu, severe_body_ache).
```