Date:	Title of the Lab	Name: Mainak Chaudhuri
Ex No:	Implementation of Resolution in SWI Prolog	Registration Number:
7.2	5	RA1911027010039
		Section: N1
		Lab Batch: 1
		Day Order: 3

AIM:

To implement Resolution in SWI Prolog.

Description of the Concept or Problem given:

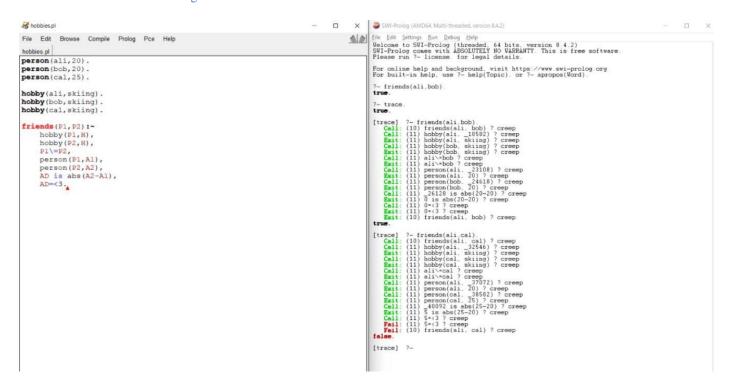
In simple words resolution is inference mechanism. Let's say we have clauses m:- b. and t:- p, m, z. So from that we can infer t:- p, b, z. - that is called resolution. Means, when you resolve two clauses you get one new clause. Another easy example, we have two sentences (1) All women like shopping. (2) Olivia is a woman. Now we ask query 'Who likes shopping'. So, by resolving above sentences we can have one new sentence Olivia likes shopping.

Manual Solution:

- 1. Conversion of facts into first-order logic.
- 2. Convert FOL statements into CNF
- 3. Negate the statement which needs to prove (proof by contradiction)
- 4. Draw resolution graph (unification).

Screenshots of the Outputs:

18CSC305J Artificial Intelligence Lab



Signature of the Student

[MAINAK CHAUDHURI]