

Ex-No: 8

## Unification & Resolution.

Date:

Aim:

To execute programs based on unification & resolution. Deduction in prolog is based on the unification and instantiation. Matching terms are unified & variables.

Procedure for execution prolog programs on unification & resolution:

1) Set to Prolog enumeration:

open your prolog interpreter.

2) Creating a knowledge base file:

Open a text editor & save the following prolog code and as resolution-kh.pl.

3) Load the knowledge base

In your prolog interpreter, load the knowledge base.

4) Define goals for Resolution

For goal 1: Prove not-straw berry-picking

For goal 2: Prove enjoy

5) Execute queries for each goal:

→ For goal 1: check if strawberry/picking is true

→ For goal 2: check if not (enjoy) is true



6) Review Results

7) Conclusion

8) Exit Prolog

After testing all goals type:

Source code:

enjoy :- sunny, warm

strawberry - picking :- warm, pleasant

Not strawberry - picking :- raining

wet :- raining

warm

raining

sunny

Q/p:

? - not strawberry - picking

true

? - enjoy

true

? - wet

true

RESULT:

thus the program was successfully and the output was verified.