

Exp No: 13

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UNIFICATION AND RESOLUTION

AIM:

To execute programs based on unification and resolution. Deduction in Prolog is based on the unification and Instantiation. Matching terms are unified and variables get instantiated.

PROCEDURES FOR EXECUTING PROLOG PROGRAMS ON UNIFICATION AND RESOLUTION:

1) Set up Prolog Environment:

Open your Prolog Interpreter

2) Creating a knowledge base file:

Open a text editor and save the following code as resolution.in kb.pl:

3) Load the knowledge base:

In your prolog interpreter load the knowledge base.

4) Define goals for Refutation:

For Goal 1: Prove web-strawberry-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) End Prolog:

After testing all goals type:

OUTPUT:

? -not-strawberry-picking

true

? -enjoy

true

? -not

true

CODE:

enjoy : sunny, warm

strawberry-picking :- warm, pleasant

not_strawberry-picking :- raining

not :- raining

warm

raining

sunny

RESULT:

Thus, the program for Unification and Resolution executed successfully and output is verified.