Experiment No:8 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.

Procedure:

Procedure for Executing Prolog Programs on Unification and Resolution

Set up Prolog Environment:

Open your prolog interpreter

Creating a Knowledge base file:

Open a text editor and save the following Prolog code as resolution_kb.pl.

Load the Knowledge Base:

In your prolog interpreter, load the knowledge base.

Define goals for Refutation:

For Goal 1: Prove not_strawberry-picking

For Goal 2: Prove enjoy

Execute Queries for Each Goal:

For Goal 1: Check if Strawberry-picking is true

For Goal 2: Check if not(enjoy) is true

Review Results

Conclusion

Exit Prolog:

After testing all goals type:

?- halt

Output:

```
?- notstrawberry - picking
true
?- enjoy
true
?- wet.
true
```

Result:

The program is successfully executed and the output is verified