To develop a family tree program using PROLOG with all possible facts, rules and queries

Procedure:

- 1. Create a file: write the knowledge base in a text file and save it as family-nelations pl 2- Open prolog: Lanch your prolog interpreter 3. Load the knowledge boux: In prolog, load the file vising ? - [family-relations]
 - 4. Query the dottobase: Ask queries based on the facts and rules.
 - 5. View results: Prolog will return results for each query. Use the semicolon; to see more
 - 6. Exit prolog: type: ? - halt,

to exit the interpreter.

Output: male (peter) true foother (chois - peter) true father (chois - betty) false grandfather (kevin - peter) -true Result: perogram was successfully executed and the OIP is verified.

INTRODUCTION TO PROLOG

Aim

To leaver PROLOGY terminologies and write basic programs

Procedure for using prolog with kBI and kB 2.

1. Create a file: Open a texteditor and
save the following knowledge bases as kb1. P1
and kb2. pl nespectively

- 2. Open prolog: lampeh your prolog interpreter (e.g., SwI-Prolog)
- 3. Load knowledge Bare;
- 4. Execute alleries
- 5. View results: Prolog will provide answers to each query, If the query is true, it will return false you can press: to see more answers if available

b. Exit Prolog: Type:

To exit the prolog interpreter

01P: 1 ? - woman (mia). P- plays Air Grutar (ma) falle ?- party trace ? - concal-Error: Unknown procedure: concert 10

Result:
The program was successfully executes and the OIP is verified

EX.NO: 8 Unification and Resolution Date: 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 instantiation Procedure 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 some the following prolog code as resolution- Kb. pl 3. Load the knowledge Base: In your prolog interpreter, load the knowledge base 4. Define goals for Rejutation. For Great 1: Prove not-strawborry, proling For Goal 3: Prove enjoy 5. Execute Queries got each Goal; For Goal 2: check if etranserry-picking is true

6. Raien results 7 - Conclusion. 8. Exit Prolog: After testing all goals type: ? - halt P_ notstrawberry - picking true ?- enjoy true ? - Wet) Result The program now successfully execute and the old is verified

The aim of implementing fuzzy logic for edge detection is to enhance the robustness and accuracy of edge detection in Images by handling uncestainities in pivel intentity transition.

Procedure for Fuzzy Logic Edge detection Step 1: Set up the environment

MATLAB with the image processing toolbox and fuzzy logic toolbox installed.

Step 2: Import and convert image to grayscale 1. Read the RUB Image 3. Convert to Grayscale

Step 3: Convert image to double-precision

1. Convert to double Step 4: Obtain image gnadient-

1. Define Gradient filters:

2/ Calculate anadients

3. Plot image gradients

Step 5: Define herry informe system (A) for edge detection 2. Ped inputs 3. Add Define Kembership furction for month 2. Add output 5. Define Montership functions for output 6. Plot Membership functions Step 6: Specify FIS rules 1. Add rules for FIS Step 7: Evaluate +15 1. Exaluate edge detection Step 8: Plot results 1. Plot original Graystale Image 2 Plot detected edges Result: The program has encuesfully executed and the OIP is verified.