ENPNO: 14 FUZZY LOGIC - IMAGIE PROCESSING

Date: Obliph

AIM:

The all of implementing surry logic for edge dictation is to enhance the rebustness and accuracy of edge detection in images by sording uncertainties in pixel instancity transactions.

PROCEDURE:

stop1: Set up the environment

step 2: Import and convert mage to

- D Read the RGB Image
- 2) convect to Grayerale

steps: Convert image to double-precision data

1) convert to double

Stop 4: Obtain mage gradient

- 1) Define croadent Atters
- 2) Calculate Gradients
- 3) Plot Prage gradient

step 5: Define fuzzy Protostace system (FIS)

for edge detaction

- 1) Create FIS
 - 2) Add Puputs

- 3) define wembership struction for inputs
- 40 Add output
- 5) Define Membership functions for author
- 6) Plet wembership functions

Specify FIS rules

D Add rules for FIS

Step 7: Evaluate FIS

1) Evaluate Filge Detection

Step 8: Plot results

- D Plot exiginal enayscale Image
- 2) Plot detected edges.

RECULT'

Thus, the Purplementation of the legic

98 enecuted accessfully and eutoputs 8 vertical.