**Feature Extraction:**

**Boundary Detection:**

Code:

% Read the image

Coins = imread(‘coins.png’);

% Convert the image to binary

CoinsBW = im2bw(Coins);

% Fill holes in the binary image

FilledCoinsBW = imfill(CoinsBW, ‘holes’);

% Extract boundaries of objects

Boundaries = bwboundaries(FilledCoinsBW);

% Display the original image

Imshow(Coins);

Hold on;

% Plot the boundary of the 2nd object in red

Plot(boundaries{2}(:,2), boundaries{2}(:,1), ‘r’, ‘LineWidth’, 2);

% Plot the boundary of the 7th object in green

Plot(boundaries{7}(:,2), boundaries{7}(:,1), ‘g’, ‘LineWidth’, 2);

Hold off;

CoinsBW = imbinarize(rgb2gray(Coins));