```
Submit by:
       Ayesha Shahbaz (BIT21242)
 Submitted to:
      Mam Fouqia Zaheer
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 2<sup>nd</sup> object in red Plot(boundaries {2}(:,2), boundaries {2}(:,1), 'r', 'LineWidth',
2);
% Plot the boundary of the 7<sup>th</sup> object in green
Plot(boundaries {7}(:,2), boundaries {7}(:,1), 'g', 'LineWidth', 2);
Hold off;
CoinsBW = imbinarize(rgb2gray(Coins));
                                                           1
```