

LAB 4

Name: Amir Hafizi Bin Musa

Student ID: 2024745815

Group: A4CDCS2306A

ASSIGNMENT

Assignment 1:

Extract a coin from 'eight.tif' file.

```
% 1. Extract a coin from 'eight.tif' file.
J = imread('eight.tif');

I = im2bw(J);

figure;
imshow(I);
axis off;

title('Binary Image of eight.tif - Please select a coin');

disp('Please select the Region Of Interest (a coin) by clicking points around it and
press Enter.');

ROI = roipoly(I);

K = and(I, ROI);

figure;
imshow(K);

title('Extracted Coin');
```

Result: (Before Extract)



Command Window

Please select the Region Of Interest (a coin) by clicking points around it and press Enter.

After Extract:



Assignment 2:

Show the difference between 'mask.jpg' and 'angio.jpg'. Enhance the result so that you can display it better

```
% Load the images
mask = imread('mask.jpg');
angio = imread('angio.jpg');

% Convert to grayscale if they are RGB
if ndims(mask) == 3
    mask = rgb2gray(mask);
end
if ndims(angio) == 3
    angio = rgb2gray(angio);
end

% Compute the difference
diff = imsubtract(mask, angio); % This is your "raw difference"

% Enhance the difference
enhanced = imadjust(diff);

% Display all four images in a 2x2 layout
figure;

subplot(2, 2, 1);
imshow(mask);
title('Mask Image');

subplot(2, 2, 2);
imshow(angio);
title('Angio Image');

subplot(2, 2, 3);
imshow(diff, []); % Use [] to auto-scale display range
title('Raw Difference (Needs Enhancement)');

subplot(2, 2, 4);
imshow(enhanced);
title('Enhanced Difference');
```

Result:

