**University of the Punjab**

**Gujranwala Campus**

**Department of Information Technology**



**Assignment: Computer Vision**

**Prepared by:**

**Zoha Ejaz**

**BIT21007**

**Submitted to:**

**Miss Fouqia Zafeer**

**Segmentation:**

% Read the image

I = imread('coins.png');

% Convert the image to grayscale (if it's not already)

I\_gray = rgb2gray(I);

% Display the histogram of the image

figure, imhist(I\_gray);

title('Histogram of the Image');

% Compute Otsu's threshold level

level = graythresh(I\_gray);

% Convert the image to binary using the computed threshold

BW = im2bw(I\_gray, level);

% Display the original and binary images

figure;

subplot(1,2,1);

imshow(I\_gray);

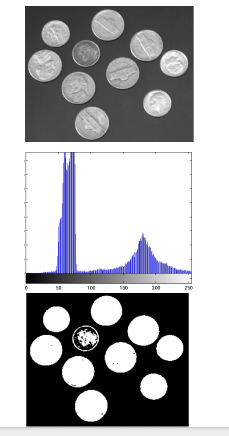
title('Original Grayscale Image');

subplot(1,2,2);

imshow(BW);

title('Binary Image using Otsu’s Method');

**OUTPUT:**

****