**University of the Punjab**

**Gujranwala Campus**

**Department of Information Technology**



**Assignment: Computer Vision**

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**Euclidiean Diatance**

**CODE:**

% Define a zero matrix of size 100x100

A = zeros(100, 100);

% Center of the shape

Cx = 50;

Cy = 50;

% Radius or distance threshold

Radius = 20;

% For Euclidean Distance

for i = 1:100

for j = 1:100

% Euclidean distance formula

if sqrt((Cx - i)^2 + (Cy - j)^2) <= Radius

A(i, j) = 255; % Assign value for Euclidean distance

end

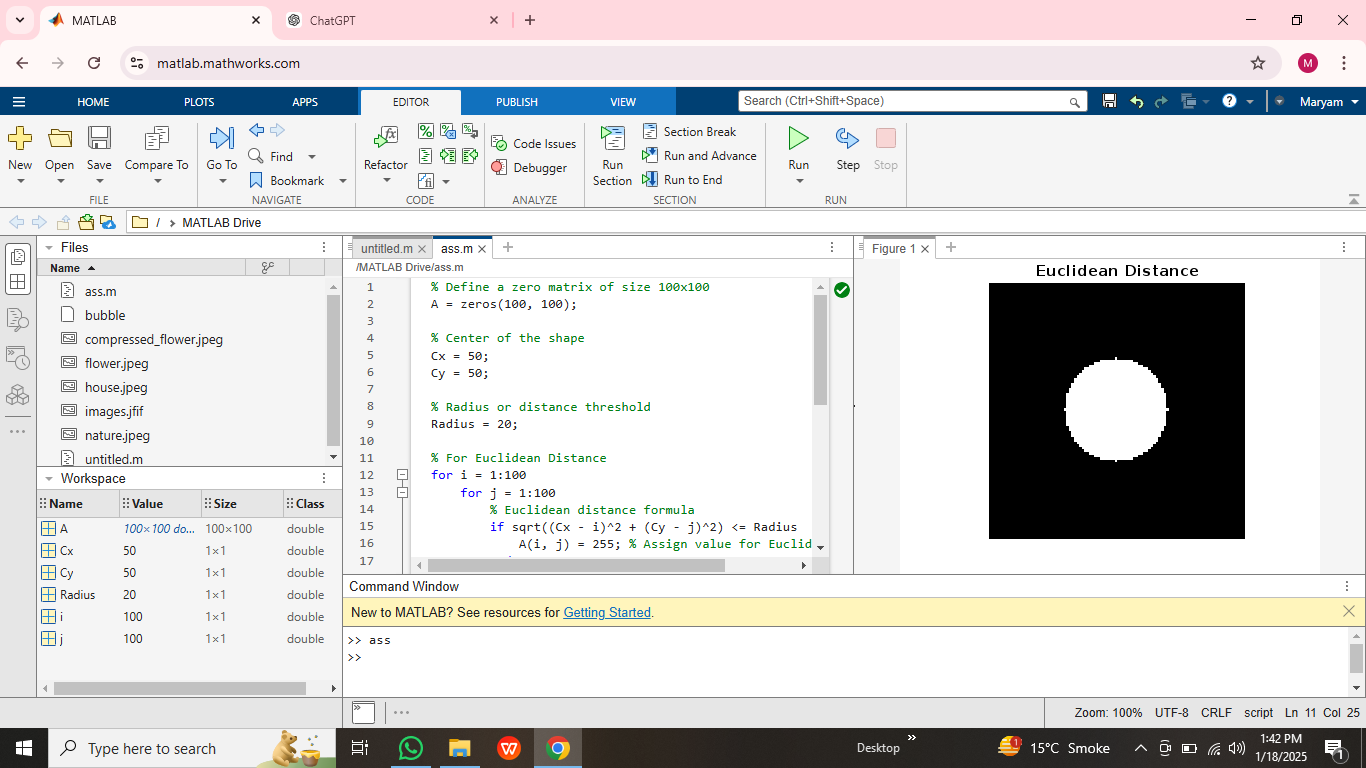
end

end

imshow(A);

title('Euclidean Distance');

**OUTPUT:**

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