clc

clear all

close all

x=imread('circles.PNG');

subplot(2,2,1);

imshow(x);

title('Original Image');

a=x;

x=~x;

ms=bwdist(x);

ms=255-uint8(ms);

subplot(2,2,2);

imshow(ms);

title('Image after applying Distance Transformation');

hs=watershed(ms);

ws=hs==0;

subplot(2,2,3);

imshow(a | ws);

title('Watershed Segmentation of the image');

subplot(2,2,4);

imshow(label2rgb(hs));

title('Visualization of different segments with different color');