SAMYAK PADWEKAR

DIV-J Roll no-03

Assignment 4

Segmentation of an Input Image

Code-

clc;

clear all;

close all;

q=imread('C:\Users\lenovo\Desktop\matlab.jpg');

I=rgb2gray(q)

I1=imtophat(I, strel('disk',10));

figure(1);

imshow(I1);

I2=imadjust(I1);

figure(2);

imshow(I2);

level=graythresh(I2);

BW=im2bw(I2,level);

figure(3);

imshow(BW);

C=~BW;

figure(4);

imshow(C);

D=bwdist(C);

D(C)=~Inf;

L=watershed(D);

Wi=label2rgb(L,'hot','w');

figure(5);

imshow(Wi);

im=I;

im(L==0)=0;

figure(6);

imshow(im);

%%

OUTPUT-

