**Lab 12**

**Speech and Image Processing**

Group assignment up to 3 students per group.

**Question** 10 marks

**Using MATLAB/Octave, given a clean text image x (example in Figure 1 below), break it into separate lines of text and save each line into a separate jpg file. The code should automatically do this for a given input text image file.**

**Hint:** Some starting code is given below

close all; % close all figures

x = imread('ocr\_text.jpg'); % read input file

x=double(x);

[r,c]=size(x); % find rows and columns of image x

figure,imshow(x,[]); % show x on screen

x2(:,:,1)=x;

x2(:,:,2)=x;

x2(:,:,3)=x;

i=1;

% cutting a portion of x image and saving it as 1.jpg

imwrite(x2(50:100,:,:)/256, strcat(int2str(i),'.jpg'));

end

**Deliverables:**

MATLAB/Octave code file ***ocr\_lines.m***

Input image ***ocr\_text.jpg.*** Each group should have a separate input image

Output images ***1.jpg to n.jpg*** each image having separate line of text

**Example**

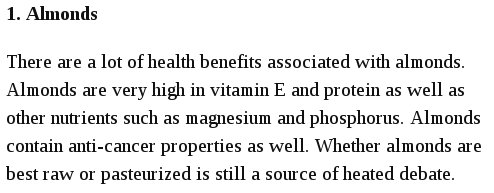


Figure 1. Input image “ocr\_lines.jpg”



Figure 2. First line saved as “1.jpg”



Figure 3. Second line saved as “2.jpg”