imagen=imread('light.jpg');

>> imagen1=imagen;

>> figure,imshow(imagen1);

>> title('INPUT IMAGE WITH NOISE')

>> if size(imagen,3)==3

imagen=rgb2gray(imagen);

end

>> threshold = graythresh(imagen);

>> imagen =~im2bw(imagen,threshold);

>> imagen2 = imagen;

>> imagen = bwareaopen(imagen,15);

>> imagen3 = imagen;

>> word=[ ];

>> re=imagen;

>> fid = fopen('text.txt', 'wt');

>> load templates

>> global templates

>> num\_letras=size(templates,2);

>> while 1

[fl re]=lines\_crop(re);

imgn=fl;

n=0;

spacevector = [];

rc = fl;

while 1

[fc rc space]=letter\_crop(rc);

img\_r = imresize(fc,[42 24]);

n = n + 1;

spacevector(n)=space;

letter = read\_letter(img\_r,num\_letras);

word = [word letter];

if isempty(rc)

break;

end

end

max\_space = max(spacevector);

no\_spaces = 0;

for x= 1:n

if spacevector(x+no\_spaces)> (0.75 \* max\_space)

no\_spaces = no\_spaces + 1;

for m = x:n

word(n+x-m+no\_spaces)=word(n+x-m+no\_spaces-1);

end

word(x+no\_spaces) = ' ';

spacevector = [0 spacevector];

end

end

fprintf(fid,'%s\n',word);%Write 'word' in text file (upper)

word=[ ];

if isempty(re) %See variable 're' in Fcn 'lines'

break

end

end

>> fclose(fid);

>> winopen('text.txt')