

```
global cl len
imwt=(imread('WATERMARKED_LENA.bmp'));
%logo=im2bw(rgb2gray(imread('LOGOW.bmp')));

immod=imwt;

[h1,w1]=size(imwt);
%[r c]=size(logo);

cl=150;
dl=cl;cu=cl+99;du=dl+99;
x=1;
len;
t=0;

%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%extraction%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%exbitvector=reshape(logo,[1 len]);
%[mbitvector]=bitvectmodifi(bitvector);
wembedarea=imwt(cl:cu,dl:du);
[x1,y1]=size(wembedarea);
wembedareavect=reshape(wembedarea,[1 x1*y1]);

for t=1:len

    wpix=wembedareavect(1,t);
    bin=dec2bin(wpix,8);

    ia=logical(str2num(bin(1,8)));
    %tmp(t,1)=pix;%tmp(t,2)=99999;

    exbitvector(1,x)=ia;
    % exbitvector(1,x+1)=w;
%     modembedareavect(1,t)=mpix;%modembedareavect(1,t) ✓
-3;
```

[illegible]