

# Matlab code for lzw Compression Technique.

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This code is for lzw compression technique. If you have any problem in understanding this code, do step by step execution and see what are the changes in variables shown in workspace window of matlab.

```
clear;
clear all;
close all;
datain=input('enter the string in single quote with symbol $ as End of string
='); %input data
lda=length(datain); %length of datainput
dictionary=input('enter the dictionary in single quote (symbol used in string
are to be included)='); %input dictionary
ldi=length(dictionary); %length of dictionary
j=1; %used for generating code
n=0; %used for
%loop used for string array to cell array conversion
for i=1:lda
    dictnew(i)=(dictionary(i));
end

p=datain(1); %first symbol
s=p; %current symbol
k=1; %used for generating transmitting output code
i=1; %for loop
n=0;
while datain(i) ~= '$' %end of symbol
    c=datain(i+1);
    if c ~= '$'
        comb=strcat(s,c); %just for see combination
        if strcmp(dictnew, strcat(s,c)) == 0
            dictnew(j+ldi)=(strcat(s,c));
            %loop and check used for generating transmitting
            %code array
            check=ismember(dictnew,s);
            for l=1:length(check)
                if check(l) == 1
                    tx_trans(k)=1;
                    k=k+1;
                    break;
                end
            end

            s=c;
            j=j+1;
            i=i+1;
            n=n+1;
        end
    end
end
```

# Matlab Code Lzw Image Compression

**David Baud**



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