```
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%
% October 25, 2016
%
% Lab 8
```

Encrypting

```
clear; clc; close all; home
commandwindow
% text_mes = original text message
% keyword = keyword
% en_key = number value for the keyword
% coder = repeated en_key
% en_mes = encrypted message
% fin_mes = encrypted message back to characters
% nen_key = position in en_key
%text_mes = input('Enter the message to encrypt: ','s');
text_mes = 'Eric Clapton is a guitarist'
%keyword = input('Enter keyword: ','s');
keyword = 'stratocaster'
keyword = upper(keyword);
en_key = double(keyword)-65;
num_mes = double(text_mes);
coder = zeros(size(text_mes));
en_mes = zeros(size(text_mes));
nen_key = 1;
for k = 1:length(coder)
    if nen_key > length(en_key)
        nen_key = 1;
    end
    coder(k) = en_key(nen_key);
    nen_key=nen_key+1;
end
en_mes=num_mes;
for k = 1:length(coder)
    if num_mes(k) >= 65 && num_mes(k) <= 90
        en_mes(k) = num_mes(k) + coder(k);
        if en_mes(k) > 90
            en_mes(k) = en_mes(k) - 26;
        end
    end
    if num_mes(k) >= 97 && num_mes(k) <= 122
        en_mes(k) = num_mes(k) + coder(k);
        if en_mes(k) > 122
            en_mes(k) = en_mes(k) - 26;
        end
    end
end
fin_mes = char(en_mes);
fprintf('\n\nThe encrypted message is: %s',fin_mes)
```

```
text_mes =

Eric Clapton is a guitarist


keyword =

stratocaster


The encrypted message is: Wkzc Qnahmse bj t iuameialk
```

Decrypting

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