



Ministry of Higher Education And Scientific Research

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# Experiment 3

Encrypt by using Vigenère cipher

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```
clc;
clear all;
close all;
p=input('enter plaintext: ','s');
k=input('enter the key: ','s');
lp=length(p);
lk=length(k);
if lp>lk
    s=1;
    for i=1:lp
        if s>lk
            s=1;

            end
            kk(i)=k(s);
            s=s+1;
        end
    else
        kk=k(1:lp);
    end
    fprintf('The key is %1s \n',kk)
    for i=1:lp
        c(i)=int16(p(i)-97)+int16(kk(i)-97);
    end
    c=mod(c,26)+65;
    c=char(c);
    fprintf('The ciphertext is %1s \n',c)
```