



Ministry of Higher Education And Scientific Research

AL-Mustaqbal University College

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Experiment 6

Decrypt by using Affine cipher

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```
clc;clear all;close all

c=input('enter ciphertext: ','s');
c=upper(c);
a =input('enter value a= ');
b = input('enter value b= ');
lc = length(c);
a1=[1 3 5 7 9 11 15 17 19 21 23 25];
a2=[1 9 21 15 3 19 7 23 11 5 17 25];
s=0;
for i=1:lc
    if a1(i)==a
        s=i;
    end
end
ia=a2(s);
for i=1:lc
    v=int16(c(i))-65;
    p(i)=mod((ia*(v-b)),26);
end
p=char(p+97)
disp(['The plaintext : ' p])
```