

Experiment 9

**Multiplicative modulo inverse
for any number**

```
clc;
clear all;
close all;

% A program to find the Multiplicative modulo inverse for any number

e=input('enter the number ');
n=input('enter the modulo number ');
if gcd(e,n)~=1
    disp(['Multiplicative inverse is not found'])
else
    for i=1:n
        if mod(e*i,n)==1
            d=i;
            break;
        end
    end
    disp(['Multiplicative inverse is ' num2str(d)])
end
```

Enter the number 15
Enter the modulo number 26
Multiplicative inverse is 7