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## LAB 5

Q1: Using loop write a program to print numbers from 0 to 9.

```
dosseg
.model small
.stack 100h
.data
prompt DB
.code
main proc
mov ax, @data
mov ds, ax
lea dx, prompt
mov ah, 9
int 21h
mov cx, 10
mov ah, 2
mov dl, 48
@loop:
int 21h
inc dl
dec cx
jnz @loop
mov ah, 4ch
int 21h
main endp
end main
```

Q2: Using loop write a program to print small letter a to z in assembly language.

```
dosseg
.model small
.stack 100h
.data
.code
main proc
mov cx, 26
mov ah, 2
mov dl, 65
L1:
int 21h
inc dl
loop L1
mov dl, 10
mov ah,2
INT 21h
mov dl, 13
mov ah,2
INT 21h
mov cx, 26
mov dl, 97
mov ah, 2
L2:
int 21h
inc dl
loop L2
mov ah,4ch
INT 21h
main endp
end main
```

Q3: Program to print the input number is equal or not to given number in program using jump.

```
dosseg
.model small
.stack 100h
.data
Msg1 db 'number is equal$'
Msg2 db ' number is not equal$'
.code
Main proc
Mov ax, @data
Mov ds, ax
Mov dl, '3'
Mov ah, 1
Int 21h
Cmp al, dl
Je l1
Mov dx, offset msg2
Mov ah, 9
Int 21h
Mov ah, 4ch
Int 21h
L1:
Mov dx, offset msg1
Mov ah, 9
Int 21h
Mov ah, 4ch
Int 21h
Main endp
End main
```