

Loop, Label, Counter Register, Inc and Program to print 0 to 9

```
dosseg
.model small
.stack 100h
.data
.code
main proc

Mov cx,10
mov dx, 48

L1:
Mov dx, 48

Mov ah, 2
Int 21h

Add dx, 1

Loop L1

Mov ah,4ch
Int 21h

main endp
end main
```

Series of instructions that is repeated until a terminating condition is reached.

```
Mov dx, 'a'
Mov ah, 2
Int 21h
```

Increment by 1

```
Inc dx
```

Label Syntax

~~1Test:~~

General purpose registers,
Main purpose is to be used for a loop

LabelName:

Counter Register

```
Mov CX, 10
```

```
Mov dx, 'a'
Mov ah, 2
Int 21h
```

Loop LabelName

Works on
Decrement
By 1

Cx = 10
Cx = 9
Cx = 8
Cx = 0

Label Rules:

- 1. A **label** can be placed at the beginning of a statement, because the label is assigned the current value of line
- 2. Label name must not be a reserved word e.g. Mov, Add, DB and DW
- 3. Colon : must be used with Label While initializing, but not while calling