



**SCHOOL SUBJECT**

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BSCS-NS-2AB

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## Prelim Exam: Assembly Language (Part 2a)

**Instructions:**

- Make a program that will display capital Z to A, one character at a time, using int 2.. int 21h, LOOP, INC/DEC.
- Make sure line 1 of your source code contains your complete name as the developer, and include your name as part of the output.

Save the captured screen of the complete source code and the console output as image file. Upload the source code and save as word file.

## SOURCE CODE:

;Salanatin    BSCS NS 2Ab	dec bl
	int 21h
org 100h	
mov ah,9	mov ah,9
lea dx, ngalan	lea dx,nl ;newline
int 21h	int 21h
	loop loophere
mov cx, 26	mov ah,4ch
mov ah,2	int 21h
mov bl,90d	ret
loophere:	
mov ah,2	ngalan db "Nathaly Pearl F. Salanatin",0Dh,0Ah,24h
mov dl,bl	nl db 0Ah,0Dh,"\$"



## OUTPUT

emu8086 - assembler and microprocessor emulator 4.08

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```
01 ;Salenatin || BSCS NS 2Ab
02
03 org 100h
04
05 mov ah,9
06 lea dx,ngalen
07 int 21h
08
09 mov cx,26
10
11 mov ah,2
12 mov bl,90d
13
14 loophere:
15 mov ah,2
16 mov dl,bl
17 dec bl
18 int 21h
19
20 mov ah,9
21 lea dx,nl ;newline
22 int 21h
23 loop loophere
24
25 mov ah,4ch
26 int 21h
27
28 ret
29
30 ngalen db "Nathaly Pearl F. Salenatin"
31 nl db 0AH,0DH,"$"
32
33
34
35
36
```

emulator screen (80x44 chars)

Nathaly Pearl F. Salenatin

original source code...

```
14 loophere:
15 mov ah,2
16 mov dl,bl
17 dec bl
18 int 21h
19
20 mov ah,9
21 lea dx,nl ;newline
22 int 21h
23 loop loophere
24
25 mov ah,4ch
26 int 21h
27
```

emulator: noname.com

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Load reload step back single step run step delay ms: 100

registers

	H	L
AX	AC	2A
BX	00	40
CX	00	00
DX	01	41
SI	F400	
DI	0204	
BP	0700	
SP	FFF8	
IP	0000	
SI	0000	
DI	0000	
DS	0700	
ES	0700	

message

PROGRAM HAS RETURNED CONTROL TO THE OPERATING SYSTEM

OK

screen source reset aux vars debug stack flags

line: 11 col: 45

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