



CSE 331L: Microprocessor Interfacing & Embedded System Lab

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EEE 332/ CSE 331

Lab-4

Topic: Jump, Practice-1

Topics to be covered in class today:

- Conditional Jumps
- Procedures
- Instructions:
 - CMP = Compare
 - Jg = jump when greater than
 - Jge = jump when greater than or equal to
 - Jl = jump when less than
 - Jle = jump when less than or equal to

Example:

Find if 3 > 5 or not. If 3 > 5 then print "3 is greater than 5" otherwise print "5 is greater than 3"

ASM Code:

<pre>org 100h mov al,a mov bl,b cmp al,bl jg print mov ah,9 mov dx,offset msg1 int 21h jmp finish</pre>	<pre>print: mov ah,9 mov dx,offset msg2 int 21h jmp finish finish: ret a db 3 b db 5 msg1 db "5 is greater than 3 \$" msg2 db 10,13, "3 is greater than 5 \$"</pre>
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Practice-1

- 1. Now try to solve the above example problem using jl (jump when less than) / jle (jump when less than or equal to).**
- 2. Take 3 values of an array from the user and find the lowest value among them.**
- 3. Write an ASM code to read a letter and print if it is Upper case or Lower case**
- 4. Write an ASM code to read a letter in Upper case and print it after converting it to lower case.**
- 5. Write an ASM code to test if a number is even or odd (from 0-9)**