## Lab4

Make Binary of you Roll Number first and then use this binary converted Roll number in program by storing this binary in AX register

Write a program in Assembly Language to swap every pair of bits in the AX register

## Mechanism to Conduct Lab:

Students and teacher communicate through Skype/Adobe Connect. Students will write code using Notepad or Programmer's Notepad and will share code and screen output.

Nasm: https://vulms.vu.edu.pk/Courses/CS401/Downloads/AssmSoft.zip

DosBOX: <a href="http://sourceforge.net/projects/dosbox/files/dosbox/0.74-2/DOSBox0.74-2-win32-installer.exe/download">http://sourceforge.net/projects/dosbox/files/dosbox/0.74-2/DOSBox0.74-2-win32-installer.exe/download</a>

Programmers Notepad: <a href="https://github.com/simonsteele/pn/releases/download/v2.4.2/portable-pn2421440.zip">https://github.com/simonsteele/pn/releases/download/v2.4.2/portable-pn2421440.zip</a>

## Solution:

mov cx, 0

mov cx, bx

or cx, dx ; ORing of bx and dx

will produce desired result

mov ax, cx ; ax now has the

result

end: mov ax, 4c00h

int 21h