Coal Lab Task 1

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Step1: Download NASM Assembler from Google Classroom. Save the files nasm. exe and afd. exe in the NASM folder located in the home directory.

Step2:Install DOSBOX on Ubuntu by executing the following command in the terminal: *sudo apt install dosbox*.

```
(base) tazmeen@tazmeen-ThinkPad-X250:~$ sudo apt install dosbox
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
dosbox is already the newest version (0.74-3-4).
0 upgraded, 0 newly installed, 0 to remove and 6 not upgraded.
(base) tazmeen@tazmeen-ThinkPad-X250:~$
```

(I have already installed it)

Step3: Open DOSBOX and mount the NASM folder by typing the following command: mount c home/(username)/NASM

```
Welcome to DOSBox v0.74-3

For a short introduction for new users type: INTRO
For supported shell commands type: HELP

To adjust the emulated CPU speed, use ctrl-F11 and ctrl-F12.
To activate the keymapper ctrl-F1.
For more information read the README file in the DOSBox directory.

HAVE FUN!
The DOSBox Team http://www.dosbox.com

Z:\>SET BLASTER=A220 I7 D1 H5 T6

Z:\> mount c /home/tazmeen/NASM

Drive C is mounted as local directory /home/tazmeen/NASM/
```

Step4:

Navigate to the mounted C drive

```
Z:\> mount c /home/tazmeen/NASM
Drive C is mounted as local directory /home/tazmeen/NASM/
Z:\>C:
```

Step5: Assemble the NASM file c01-01.asm. Use the following command, and generate a listing file (c01-01.lst) as well:

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: DOSBOX —

```
Welcome to DOSBox v0.74-3

For a short introduction for new users type: INTRO
For supported shell commands type: HELP

To adjust the emulated CPU speed, use ctrl-F11 and ctrl-F12.
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Z:\>SET BLASTER=AZZO I7 D1 H5 T6

Z:\> mount c /home/tazmeen/NASM
Drive C is mounted as local directory /home/tazmeen/NASM/

Z:\>C:
C:\>nasm c01-01.asm -o c01-01.com -l c01-01.lst

C:\>
```

Step7:

open it in Advance Debbuger by : afd c01-01.com

```
DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: DOSBOX -
```

```
Welcome to DOSBox v0.74-3

For a short introduction for new users type: INTRO
For supported shell commands type: HELP

To adjust the emulated CPU speed, use ctrl-F11 and ctrl-F12.
To activate the keymapper ctrl-F1.
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HAUE FUN!
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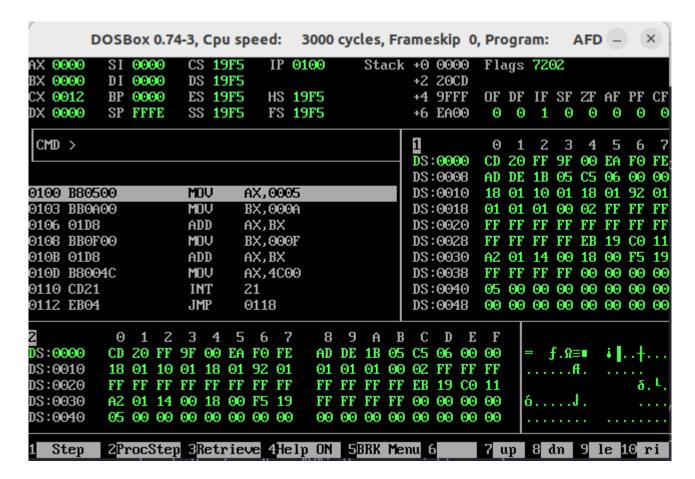
Z:\>SET BLASTER=A220 I7 D1 H5 T6

Z:\> mount c /home/tazmeen/NASM

Drive C is mounted as local directory /home/tazmeen/NASM/

Z:\>C:\>nasm c01-01.asm -o c01-01.com -l c01-01.lst

C:\>afd c0-01.com_
```



Done with the setup.