Lab Report #3 Saad Ahmad 20P-0051

In this lab we learn how to code in nasm or basically we run our first code in assembly language.

So, the format for writing the code is as follow:

[Op-code] [Destination Operand] [Source operand]

For Example:

```
mov ax, 5
mov bx, ax
add ax, 5 etc
```

Now here is our first code:

English Version:

mov 5 to ax mov 10 to bx add ax to bx

Assembly version:

Compile the code:

nasm e1.asm -l e1.lst -o e1.com

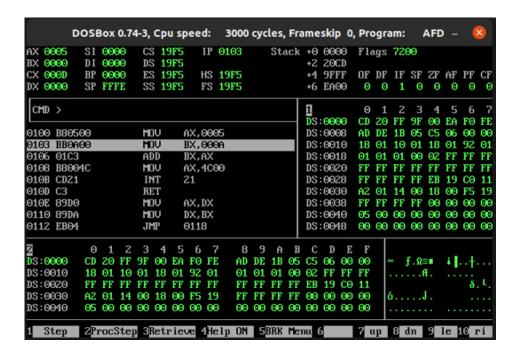
```
DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: DOSBOX -
                                 2,672 07-04-1999 15:43
409 10-10-2021 22:33
HISTORY
LAB1
           ASM
                               28 10-10-2021 22:34
1,927 10-10-2021 22:34
259,638 12-09-2003 10:36
128,460 12-09-2003 10:36
           COM
LAB1
LAB1
           LST
nasm
           EXE
NDISASM
           EXE
R01-01.S S
R01-02.S S
                                    371 02-09-2021 12:42
                                    371 02-09-2021 12:42
RSX
           EXE
                               111,900 19-02-1999 15:45
                                80,896 19-02-1999 15:46
1,038 06-11-1998 15:15
RSXNT
           DLL
RTN
           ASM
                                    402 06-11-1998 15:16
RTN
           RC
                                    384 06-11-1998 15:13
           RES
RTM
                                    99 05-10-2021 14:42
SETUP
           TXT
                                   591 16-11-1998 10:11
508 26-10-1998 10:12
TCOFF
           asm
TEST
           asm
           COM
                                     18 24-09-2021 22:41
TEST
           LST
                                 1,216 24-09-2021 22:39
TEST
                               405 26-10-1998 10:12
951,917 Bytes.
TEST
           OBJ
   87 File(s)
    3 Dir(s)
                         262,111,744 Bytes free.
C:\>nasm E1.ASM -l E1.lst -o e1.com
```

Debugger:

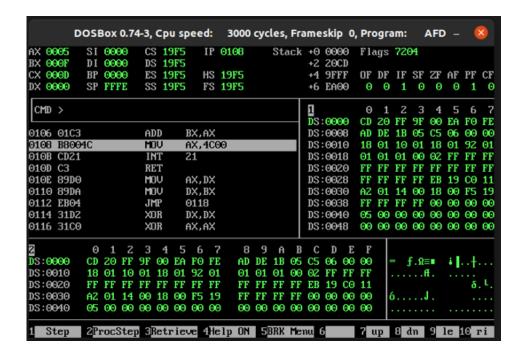
afd e1.com

```
DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: DOSBOX -
                                 2,672 07-04-1999 15:43
409 10-10-2021 22:33
HISTORY
LAB1
           ASM
                                 28 10-10-2021 22:34
1,927 10-10-2021 22:34
           COM
LAB1
LAB1
           LST
                               259,638 12-09-2003 10:36
128,460 12-09-2003 10:36
nasm
           EXE
NDISASM
           EXE
R01-01.S S
R01-02.S S
                                    371 02-09-2021 12:42
371 02-09-2021 12:42
           EXE
                               111,900 19-02-1999 15:45
RSXNT
           DLL
                                80,896 19-02-1999 15:46
                                 1,038 06-11-1998 15:15
RTN
           asm
RTN
           RC
                                    402 06-11-1998 15:16
                                    384 06-11-1998 15:13
           RES
RTN
                                    99 05-10-2021 14:42
591 16-11-1998 10:11
508 26-10-1998 10:12
SETUP
           TXT
TCOFF
           asm
           ASM
TEST
                                 18 24-09-2021 22:41
1,216 24-09-2021 22:39
TEST
           COM
TEST
           LST
           OBJ
                                    405 26-10-1998 10:12
TEST
   87 File(s)
                               951,917 Butes.
                          262,111,744 Bytes free.
    3 Dir(s)
 :\>nasm E1.ASM -l E1.lst -o e1.com
 :\>afd E1.COM
```

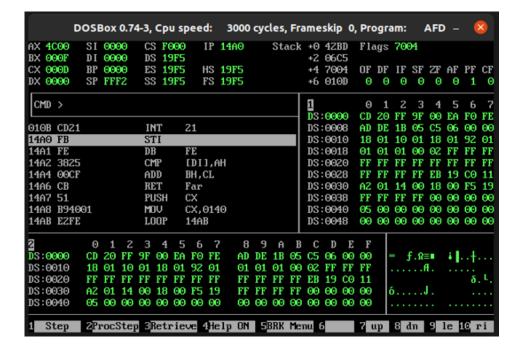
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CX 000D	BP	000			1				.9F5					9FI			DF	IF			ΑF	PF	CF
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2	0	1	Z	3	4	5	6	7	8	9	A	В	С	D	Е	F	П						
DS:0000	CD	20	$\mathbf{F}\mathbf{F}$	9F	00	ΕA	FΘ	FΕ	AD	DΕ	1B	05	C5	06	00	00	ı I	- ;	f.Ω		i I	+.	
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DS:0020	FF	$\mathbf{F}\mathbf{F}$	$\mathbf{F}\mathbf{F}$	$\mathbf{F}\mathbf{F}$	FF	$\mathbf{F}\mathbf{F}$	$\mathbf{E}\mathbf{B}$	19	CO	11	-1					δ	٠٠.						
DS:0030	ΑZ	01	14	00	18	Θ	F5	19	$\mathbf{F}\mathbf{F}$	$\mathbf{F}\mathbf{F}$	$\mathbf{F}\mathbf{F}$	$\mathbf{F}\mathbf{F}$	∞	∞	00	00		ó.,		١,			
DS:0040	05	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00							
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Another example

Assembly version:

```
coal > co
```

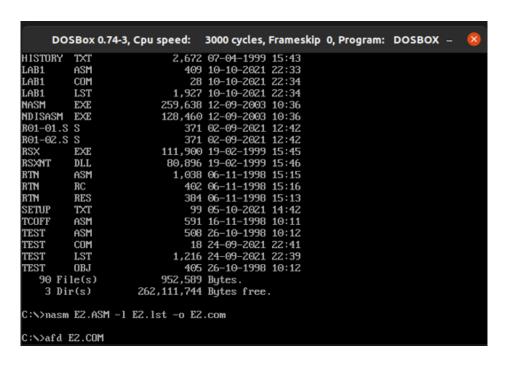
Compile the code:

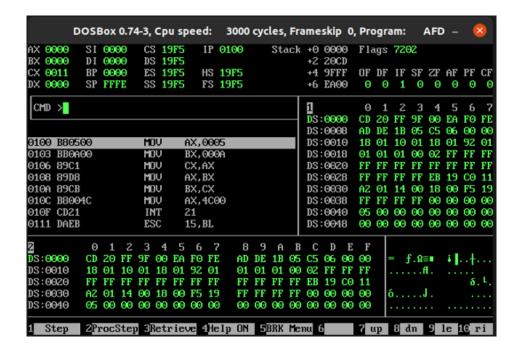
nasm e2.asm -1 e2.lst -o e2.com

```
DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: DOSBOX –
HISTORY TXT
LAB1 ASM
                                       2,672 07-04-1999 15:43
409 10-10-2021 22:33
                                   28 10-10-2021 22:34
1,927 10-10-2021 22:34
259,638 12-09-2003 10:36
128,460 12-09-2003 10:36
LAB1
LAB1
             COM
             LST
nasm
             EXE
NDISASM
             EXE
                                          371 02-09-2021 12:42
371 02-09-2021 12:42
R01-01.S S
R01-02.S S
RSX
             EXE
                                    111,900 19-02-1999 15:45
                                     80,896 19-02-1999 15:46
1,038 06-11-1998 15:15
RSXNT
             DLL
RTN
             ASM
                                          402 06-11-1998 15:16
384 06-11-1998 15:13
             RC
RTN
             RES
RTN
                                          99 05-10-2021 14:42
591 16-11-1998 10:11
SETUP
             TXT
TCOFF
             asm
                                          508 26-10-1998 10:12
TEST
             ASM
                                       18 24-09-2021 22:41
1,216 24-09-2021 22:39
TEST
             COM
             LST
TEST
                             405 26-10-1998 10:12
952,589 Bytes.
262,111,744 Bytes free.
             OBJ
TEST
    90 File(s)
     3 Dir(s)
 C:\>nasm E2.ASM -1 E2.1st -o E2.com
```

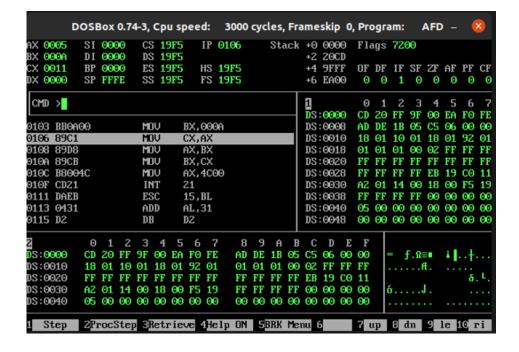
Debugger:

afd e2.com

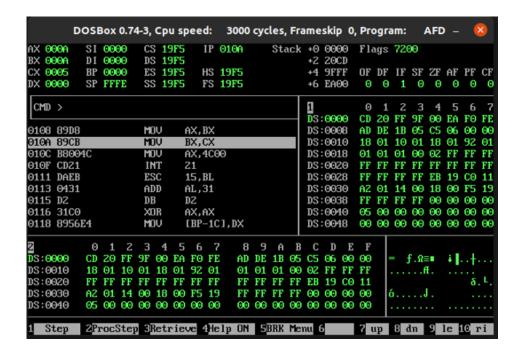


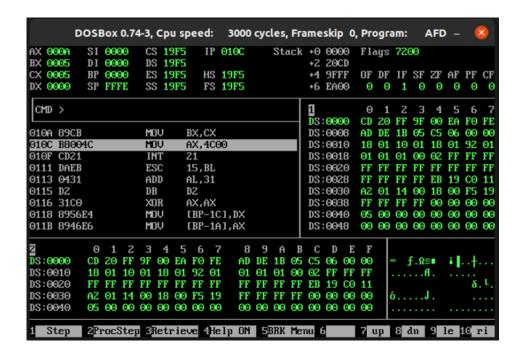


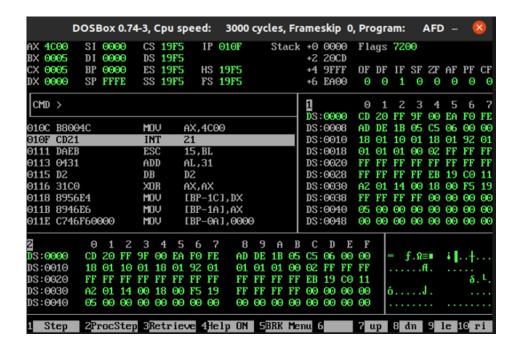
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DX 0000	SP				1				19F5					EAG	-	0	0	1	0	0	0	0	0
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9111 DAI	EB			ES	3C		15,1	BL				- 1	DS	:000	30	ĤΖ	01	14	00	18	00	F5	19
9113 043	31			ΑI	DD	f	ΉL,	31				- 1	DS	:000	38	$\mathbf{F}\mathbf{F}$	$\mathbf{F}\mathbf{F}$	$\mathbf{F}\mathbf{F}$	$\mathbf{F}\mathbf{F}$	00	∞	∞	∞
9115 DZ				DI	3]	02					- 1	DS	:00	40	05	Θ	$\Theta\Theta$	00	$\Theta\Theta$	99	$\Theta\Theta$	00
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DS:0010	18	01	10	01	18	$\Theta 1$	92	01	01	01	01	∞	02	$\mathbf{F}\mathbf{F}$	$\mathbf{F}\mathbf{F}$	$\mathbf{F}\mathbf{F}$				fŧ.			
DS:0020	FF	$\mathbf{F}\mathbf{F}$	FF	$\mathbf{F}\mathbf{F}$	FF	$\mathbf{F}\mathbf{F}$	$\mathbf{F}\mathbf{F}$	$\mathbf{F}\mathbf{F}$	FF	$\mathbf{F}\mathbf{F}$	$\mathbf{F}\mathbf{F}$	$\mathbf{F}\mathbf{F}$	$\mathbf{E}\mathbf{B}$	19	CO	11						δ	٠.
DS:0030	AZ	01	14	00	18	$\Theta\Theta$	F5	19	$\mathbf{F}\mathbf{F}$	$\mathbf{F}\mathbf{F}$	$\mathbf{F}\mathbf{F}$	$\mathbf{F}\mathbf{F}$	00	$\Theta\Theta$	$\Theta\Theta$	00		ó		J.			
DS:0040	05	9 0	00	00	00	9 0	00	00	00	00	00	00	00	0 0	00	00							
Step	2P	roc	Ste	3	Ret	rie	ле 4	Не	lp ON	5	BRK	Me	nu (6		7 0	ιp	8	dn	9	le	10	ri







Now the last code:

Assembly version:

Compile the code:

nasm Lab1.asm -l Lab1.lst -o Lab1.com

```
DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: DOSBOX -
HISTORY TXT
                                            2,672 07-04-1999 15:43
               asm
                                               460 13-10-2021 19:08
                                        26 13-10-2021 19:09
3,823 13-10-2021 19:09
259,638 12-09-2003 10:36
128,460 12-09-2003 10:36
LAB1
               COM
LAB1
               LST
NASM
               EXE
NDISASM EXE
R01-01.S S
R01-02.S S
RSX EXE
                                        371 02-09-2021 12:42
371 02-09-2021 12:42
371 02-09-2021 12:42
111,900 19-02-1999 15:45
80,896 19-02-1999 15:45
RSXNT
               DLL
RTN
               asm
                                            1,038 06-11-1998 15:15
RTN
               RC
                                                402 06-11-1998 15:16
                                               384 06-11-1998 15:13
99 05-10-2021 14:42
RTN
               RES
SETUP
               TXT
                                               591 16-11-1998 10:11
TCOFF
               asm
                                 591 16-11-1998 10:11

508 26-10-1998 10:12

18 24-09-2021 22:41

1,216 24-09-2021 22:39

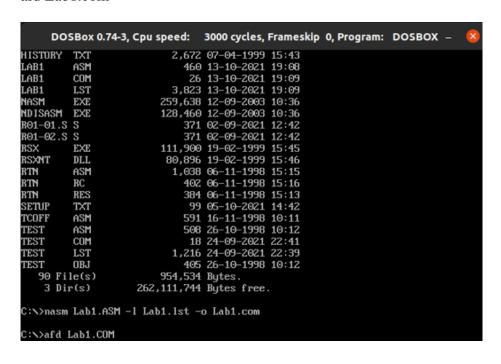
405 26-10-1998 10:12

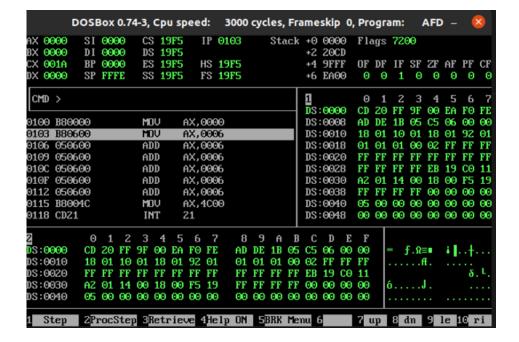
954,534 Bytes.

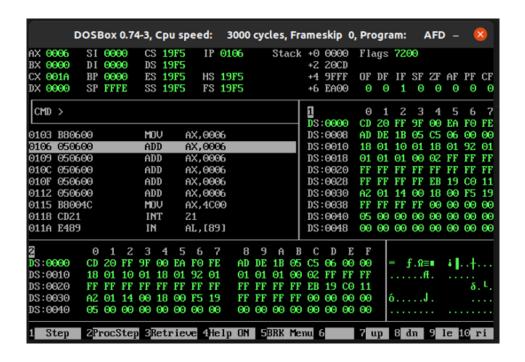
262,111,744 Bytes free.
               asm
TEST
               COM
TEST
               LST
TEST
 TEST
               obj
     90 File(s)
      3 Dir(s)
C:\>nasm Lab1.ASM -l Lab1.lst -o Lab1.com
 C:\>
```

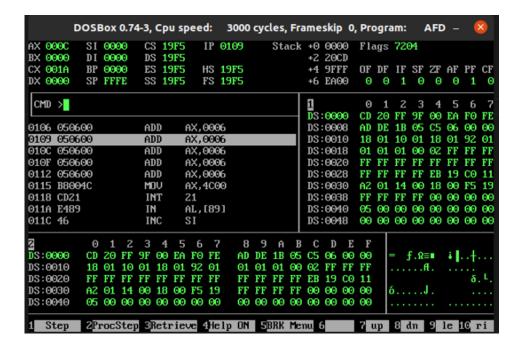
Debugger:

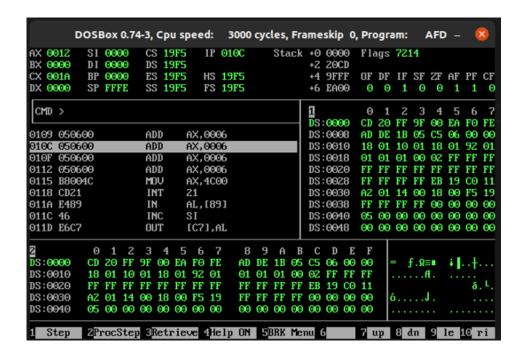
afd Lab1.com

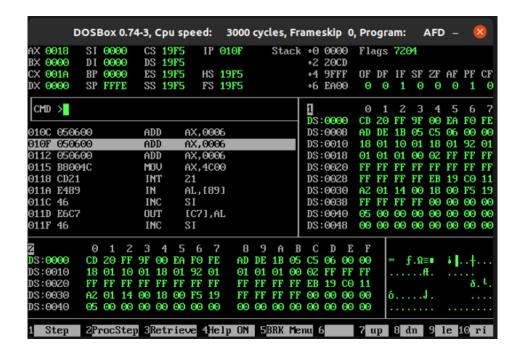












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BX 0000		000			1									200									
CX 001A		000			3 1			HS 1					+4	9FI		OF	DF	IF	SF	_	ΑF	PF	C
DX 0000	SP	FFI	Œ	25	3 1	JF5	1	FS 1	915				+6	EA0	90	0	Θ	1	Θ	Θ	0	1	
CMD >												Т	1			0	1	2	3	4	5	6	
												4		000	90	CD	20	$\mathbf{F}\mathbf{F}$	9F	00	EΑ	FΘ	F
910F 05	0600			ΑI	OD	1	X,C	9006						:000		ΑD	DE	1B	05	C5	06	00	0
9112 05	0600			ΑI)D	ſ	ìΧ,	9006					DS	:00:	10	18	01	10	01	18	01	92	0
9115 B8	004C			M)Ų	ſ	ìΧ, ć	4C00					DS	:00:	18	01	01	01	00	02	FF	$\mathbf{F}\mathbf{F}$	\mathbf{F}
9118 CD	21			11	T	á	21					- 1	DS:	:000	20	$\mathbf{F}\mathbf{F}$	$_{\rm FF}$	$\mathbf{F}\mathbf{F}$	$\mathbf{F}\mathbf{F}$	$\mathbf{F}\mathbf{F}$	$\mathbf{F}\mathbf{F}$	$\mathbf{F}\mathbf{F}$	F
911A E4	89			11	1	f	àL,Ι	[89]					DS	:000	28	FF	FF	$\mathbf{F}\mathbf{F}$	$\mathbf{F}\mathbf{F}$	$\mathbf{E}\mathbf{B}$	19	C0	1
911C 46					4C		31					- 1		:000		ĤΖ	01	14	00	18	$\Theta\Theta$	F5	1
911D E6	C7			OL	JT		[C7]	l,AL				- 1	DS:	:00:	38	$\mathbf{F}\mathbf{F}$	$_{\mathrm{FF}}$	$\mathbf{F}\mathbf{F}$	$\mathbf{F}\mathbf{F}$	00	∞	∞	0
911F 46					1C		8 I					- 1		:00		05	Θ	9 0	00	90	$\Theta\Theta$	$\Theta\Theta$	
9120 F6	0000			TI	EST		[BX-	+811	,00				DS	:004	1 8	00	00	00	00	00	99	99	0
2	0	1	z	3	4	5	6	7	8	9	A	В	С	D	Е	F	П						Π
DS:0000	CD	20	$\mathbf{F}\mathbf{F}$	9F	00	ΕA	FΘ	FE	AD	DΕ	1B	05	C 5	06	00	90	- 1	- :	f.Ω		i I	+	
DS:0010	18	01	10	01	18	01	92	01	01	01	01	$\Theta\Theta$	0 2	$\mathbf{F}\mathbf{F}$	$\mathbf{F}\mathbf{F}$	$\mathbf{F}\mathbf{F}$	- 1		1	Æ.			
DS:0020	FF	$\mathbf{F}\mathbf{F}$	$\mathbf{F}\mathbf{F}$	$\mathbf{F}\mathbf{F}$	FF	$\mathbf{F}\mathbf{F}$	$\mathbf{F}\mathbf{F}$	$\mathbf{F}\mathbf{F}$	$\mathbf{F}\mathbf{F}$	FF	$\mathbf{F}\mathbf{F}$	$\mathbf{F}\mathbf{F}$	$\mathbf{E}\mathbf{B}$	19	CO	11	_					δ	١.
DS:0030	AZ	01	14	00	18	Θ	F5	19	$\mathbf{F}\mathbf{F}$	$\mathbf{F}\mathbf{F}$	$\mathbf{F}\mathbf{F}$	$\mathbf{F}\mathbf{F}$	00	00	00	00	_ ·	ó.,		J.			
DS:0040	05	00	00	90	00	9 0	00	00	00	00	90	9 0	00	00	00	00							
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