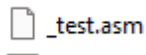


Assignment No 1

Testing debugger and NASM

Step 1



22/08/2025 10:38 am

ASM File

0 KB

In the first step we have created the file through any text editor with the extension of .asm and save it .

Step 2

```
Z:\>mount x "c:\users\Sajid islam\Downloads\assembly_nasm-main"  
Drive X is mounted as local directory c:\users\Sajid islam\Downloads\assembly_na  
sm-main\  
Z:\>S_
```

In the second step i have mounted the storage with Dosbox using the command **mount**

We have also assign the name to address of directory act as variable (x)-

Step 3

```
Z:\>Sclear
Illegal command: Sclear.
Z:\>S_
```

We have Entered the random command and output is Illegal command means this command is not in the instruction sets of Assembly language -

Step 4

```
Z:\>x:
X:\>S
```

By entering the command x: we have entered to the directory in first step we called the directory as x -

Step 5

```
X:\>nasm _test.asm
X:\>S_
```

By entering this command we confirmed that we are in the right directory -

Step 6

```
X:\>nasm _test.asm -o _test.com
```

We have created the executable file with extension **.com** ,as same as we have .exe file in c++.

Step 7

```
X:\>afd _test.com_
```

By entering **afd** we have opened the **.com** extension file for debugging .

Step 8

DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD									
AX 0000	SI 0000	CS 19F5	IP 0100	Stack +0	0000	Flags 7202			
BX 0000	DI 0000	DS 19F5			+2	20CD			
CX 0000	BP 0000	ES 19F5	HS 19F5	+4	9FFF	OF DF IF SF ZF AF PF CF			
DX 0000	SP FFFE	SS 19F5	FS 19F5	+6	EA00	0 0 1 0 0 0 0 0			
CMD >				1	0	1	2	3	4
				DS:0000	CD	20	FF	9F	00
				DS:0008	AD	DE	1B	05	C5
				DS:0010	18	01	10	01	18
				DS:0018	01	01	01	00	02
				DS:0020	FF	FF	FF	FF	FF
				DS:0028	FF	FF	FF	FF	EB
0100	7412	JZ	0114						
0102	8B46F2	MOV	AX,[BP-0E]						
0105	D1E0	SHL	AX,1						
0107	9ACF27A201	CALL	01A2:27CF						

By entering the command we entered to the debugger -
