

MICROPROCESSORS AND INTERFACING
LAB-3

NAME: A.SUDARSHAN
LAB SECTION: P10
ID: 2019B4A70744P

DATE: 26/02/2022

INPUT STRING: 'SUDARSHAN'

EXPECTED OUTPUT: 'NAHSRADUS'

```
D:\>ml lab3.asm
Microsoft (R) Macro Assembler Version 6.11
Copyright (C) Microsoft Corp 1981-1993. All rights reserved.

Assembling: lab3.asm

Microsoft (R) Segmented Executable Linker Version 5.31.009 Jul 13 1992
Copyright (C) Microsoft Corp 1984-1992. All rights reserved.

Object Modules [.obj]: lab3.obj/t
Run File [lab3.com]: "lab3.com"
List File [nul.map]: NUL
Libraries [.lib]:
Definitions File [nul.def]:

D:\>debugx LAB3.COM
-r
AX=FFFF BX=0000 CX=002B DX=0000 SP=FFFE BP=0000 SI=0000 DI=0000
DS=0863 ES=0863 SS=0863 CS=0863 IP=0100 NU UP EI PL ZR NA PE NC
0863:0100 B90900          MOV     CX,0009
```

```
D:\>debugx LAB3.COM
-r
AX=FFFF BX=0000 CX=002B DX=0000 SP=FFFE BP=0000 SI=0000 DI=0000
DS=0863 ES=0863 SS=0863 CS=0863 IP=0100 NU UP EI PL ZR NA PE NC
0863:0100 B90900          MOV     CX,0009
-d
0863:0100 B9 09 00 B8 19 20 8E C0-BF 44 07 8D 36 22 01 03 .....D..6"..
0863:0110 F1 4E FD AC B4 00 26 88-05 47 49 75 F6 B4 4C CD N & GI L.
0863:0120 21 00 53 55 44 41 52 53-48 41 4E 09 BA 2D 15 52 SUDARSHAN...R
0863:0130 50 1E 07 9A 42 07 5A 02-8B E5 5D CB 55 8B EC FF P...B.Z...U...
0863:0140 76 06 9A 2D 14 EF 06 8B-E5 5D CB 55 8B EC 83 3E v...-.....l.U...>
0863:0150 06 57 02 73 13 8A 46 08-2A E4 50 FF 76 06 9A 0E .W.s..F.*.P.v...
0863:0160 00 DB 09 83 C4 04 EB 30-8B 76 06 8A 04 22 C0 74 .....0.v..."t
0863:0170 25 2A E4 50 0E E8 F4 00-83 C4 02 23 C0 74 05 FF %*.P.....#.t..
```

```
Program terminated normally (0053)
-d 2019:0744
2019:0740          4E 41 48 53-52 41 44 55 53 D3 E0 01 NAHSRADUS..
2019:0750 46 F6 8B 46 FE 89 46 F8-FF 36 1E 36 A1 1A 36 8B F..F..F..b.b..b.
2019:0760 16 1C 36 05 06 00 83 D2-00 52 50 B8 01 00 50 E8 ..6.....RP...P.
2019:0770 2A 21 B8 08 00 50 8D 46-F2 50 E8 6D FA 8B 46 06 *!...P.F.P.m..F.
2019:0780 50 57 E8 D3 FD 5E 5F 8B-E5 5D C2 04 00 90 55 8B PW...^...l....U.
2019:0790 EC 83 EC 08 57 56 C7 46-F8 00 00 9A F4 A2 F2 20 ...WJ.F.....
2019:07A0 2D 00 04 D1 E8 D1 E8 8B-CB D1 E0 D1 E0 50 8B F1 -.....P..
2019:07B0 9A 24 A8 F2 20 5B 8B F8-3B 36 2C 42 73 0A B8 E6 .$. [...;6,Bs...
2019:07C0 0F 50 9A 96          - .P..
```