

## **New Era University**

#### **College of Computer Studies**





**Direction:** Using your computer, construct an assembly language program that will show the output given below. After you successfully run your program, write the codes on the space provided.

#### **OUTPUT 1:**

Laurice Anne Laureta (your name)
BSCS (your program)
3<sup>rd</sup> yr (your year level)

### **OUTPUT 2**:

COMPUTER

Α

R

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Ε

**ORGANIZATION** 

3BSCS-1

```
CODE (lab5_1.asm)
TITLE LAB5_1.ASM
DOSSEG
.MODEL SMALL
.STACK 0100h
.DATA
     A db "Vem Aiensi Marasigan$" ;defines the strings
     B db "BSCS$"
     C db "3rd Year$"
.CODE
     MOV AX, @DATA
     MOV DS, AX
     MOV AH, 09h ;request display string MOV DX, OFFSET A ;load address of the string
     MOV AH, 02h
     MOV DL, OAh
     INT 21h
     MOV DL, ODh
     INT 21h
     MOV AH, 09h
     MOV DX, OFFSET B
     INT 21h
     MOV AH, 02h
     MOV DL, OAh
     INT 21h
     MOV DL, ODh
     INT 21h
     MOV AH, 09h
     MOV DX, OFFSET C
     INT 21h
     MOV AX, 4C00h ;end
     INT 21h
END
```

OUTPUT (lab5\_1.asm)

C:\>TASM lab5\_1

Turbo Assembler Version 2.51 Copyright (c) 1988, 1991 Borland International

Assembling file: lab5\_1.ASM

Error messages: None Warning messages: None Passes: 1 Remaining memory: 491k

C:\>TLINK lab5\_1

Turbo Link Version 4.0 Copyright (c) 1991 Borland International

C:N>lab5\_1 Vem Aiensi Marasigan BSCS 3rd Year 3BSCS-1

```
CODE (lab5_2.asm)
TITLE LAB5_2.ASM
DOSSEG
.MODEL SMALL
.STACK 0100h
.DATA
     A db "COMPUTER$"
     B db "ORGANIZATION$"
.CODE
     MOV AX, @DATA
     MOV DS, AX
     MOV AH, 09h
     MOV DX, OFFSET A
     INT 21h
     MOV AH, 02h
     MOV DL, OAh
     INT 21h
     MOV DL, ODh
     INT 21h
     MOV DL, 'A'
     INT 21h
     MOV DL, OAh
     INT 21h
     MOV DL, ODh
     INT 21h
     MOV DL, 'R'
     INT 21h
     MOV DL, OAh
     INT 21h
     MOV DL, ODh
     INT 21h
     MOV DL, 'C'
     INT 21h
     MOV DL, OAh
     INT 21h
```

INT 21h

MOV DL, ODh INT 21h MOV DL, 'H' INT 21h MOV DL, OAh INT 21h MOV DL, ODh INT 21h MOV DL, 'I' INT 21h MOV DL, OAh INT 21h MOV DL, ODh INT 21h MOV DL, 'T' INT 21h MOV DL, OAh INT 21h MOV DL, ODh INT 21h MOV DL, 'E' INT 21h MOV DL, OAh INT 21h MOV DL, ODh INT 21h MOV DL, 'C' INT 21h MOV DL, OAh INT 21h MOV DL, ODh

```
3BSCS-1
      MOV DL, 'T'
      INT 21h
      MOV DL, OAh
      INT 21h
      MOV DL, ODh
      INT 21h
      MOV DL, 'U'
      INT 21h
      MOV DL, OAh
      INT 21h
      MOV DL, ODh
      INT 21h
      MOV DL, 'R'
      INT 21h
      MOV DL, OAh
      INT 21h
      MOV DL, ODh
      INT 21h
      MOV DL, 'E'
      INT 21h
      MOV DL, OAh
      INT 21h
      MOV DL, ODh
      INT 21h
      MOV AH, 09h
      MOV DX, OFFSET B
```

INT 21h

INT 21h

END

MOV AX, 4C00h ;end

3BSCS-1

October 25, 2023

# OUTPUT (lab5\_2.asm) C:\>TASM lab5\_2 Turbo Assembler Version 2.51 Copyright (c) 1988, 1991 Borland International Assembling file: lab5\_2.ASM Error messages: None Warning messages: None Passes: 1 Remaining memory: 490k C:\>TLINK lab5\_2 Turbo Link Version 4.0 Copyright (c) 1991 Borland International C:\>lab5\_2 COMPUTER I ORGANIZATION