Md. NWI-E-AZam

10:1512268042 Section:07

CSE-331 415 THI

LAB-3 NA VOM

In this Assembly Language priogramming, A single Postam is divided into four Segments which one-

HIS TWI

20WT

THANS TARON.

1. Data Segment, algument yoursell

2. Code Segment.

3. Stack Segment, and How Vollte

4. Extra Segment.

Parint: Hello would in Assembly Language

INTEREST TON I NO LAWITE

DATA SEGMENT

MESSAGE UB "HELLO WORLDIII\$"

MOY DS, AX

ENDS

CODE SEGMENT

ASSUME DS! DATA CS! CODE START:

MOY AX, DATA MOY DS, AX

	Day				
Sub:					
	D-10.	 Datas	1	1	
	Time:	Date:			

LEA DX, MESSAGE

MOV AH, 9

INT 21 H

MOV AH, 4 CH

INT 21 H

END START

Assembly Example 1 - Print 2 Strings

Sinter of the part of the first the contract of the contract o

- · MODEL SMALL
- · STACK 100H Low tomation to the a
- · DATA

STRING\_1 DB 'I hate CSE331 \$'

STRING-2 DB BUT I Love Kacchillis

RALED FOR

of Extens Segment

· CODE

MAIN PROC

MOY AX, GDATA

MOY DS, AX

LEA DX, STRING\_1 MOV AH, 9 INT 21H

2000

Sub:

MOV AH, 2 MO1 Dr. ORH DORG MAM MT 21H ATAMO XA VOM MON DE, ONH OCH YOM INT 21H

Lindwood xd all LEA DX, STRING\_2 Mor A14, 9 MY 21H

O UA Frant

MOV AH, 4CH THI INT 214

MAIN ENDP

END MAIN-40077 NO 471

Assembly Example 2 - Read a String and Printit

- · MODEL SMALL
- · STACK 100H 410 THI
- · DATA

MSG\_1 EQU "Enten the character: \$" MSG-2 EQU ODH, OAH, "Thegiven character Million onis: \$" PROMPT\_1 DB MSG1-1 PROMPT-2 DB MSG-2

Time: Date: / /

· CODE

MAIN PROC

MOV AX, QUATA

LEA DX, PROMPT\_I MOV AH, 9 INT 21H

MOY AH, A

MOV BL, AL HIEM

LEA DX PROMPTIZE TO

HIS TWI

MOV AH, 9

of book printer o AdNT - ZIH grow 1 yours A Es

MO1 AH, 2

MOY DL, BL 110001.

INT 21 H HOW 400.

MAIN ENDP INT SIH MON HHY CIA

CLOMPTE DO MEG. 2.

END WHIN

ATRA .

I Assembly Example 3 - Read a string from Usen and display this string in a new line

C SO BUISTS

1988 MIA"

JAH 48 J. G. 1.

29 -A 24 C.

4+40.

- · MODEL SMALL
- · STACK 100H
- . CODE

MAIN PROC

MOY AH, I

INT 21H AND MY WING MY

MOY BL, AL 410 . Again

MOY AH, 2

1100 HAD MOT DL, ODH

440 410 INT 21H-110

MOV DL, OAH

INT 21H

MOY AH, 2

MOY DE BL

May 14 1 121 Hay Von

MOV AH, ACH

MIC 196

1NT 21#

WAIN ENDP

END WATH 17 MA VON

Particular description of the last of the	THE PERSON NAMED IN COLUMN		-
Time :	Date ;	-	-

JIGHT LITTIN

SURVINIA MINIST

MOOT YTHIE.

7073 .

Thesenty Example 4 - Redd à string with

- · MOBEL SMALL
- · STHCK 64
- ATAC.

SIBING DB J

SYM DB 181

INPUT\_M DB Oan, odn, OAH, ODH, "Enter to

Output-M DB oan, oan, oah, oah, odh,
The output is", obh, oph, 15'

dis Till

HILO. JO VSM

·CODE

MAIN PROC

MOV AXI CDATA

MOY DSTAXT VO

MOY DX, OFFSET INDUT\_M

Mor AH,09

1NT 21H + 2011

LEA SI, STRING.

1WPUT: MOV AH, 01

Marine Private

MITHO

41/1 1

11001 - VIN 1 "

VALUED VOIN

die dai

91210 HINN

A FAD S . KA FORM

mor [SI], AL - - - - more of slower of

INC SI EMP AL, ODIA IN2 IMPUT

Moy [S] S' HEN AND HOOM

OUTPUT: LEA DX, OUTPUT\_M

MOV AH, 9 INT 21 H

Mov DL, OAH

MOY AH, 02H 400, 400 1014

1NT 21 H

MOY DX, OFFSET STRING

MOV AH, O9H

INT 21 H

MOY AH, 4CH

INT 21H

WAIN ENDA

END MAIN

Hool VA

A1 . 3.

MON AX, @DATA

Sub:

Mor Ds, Ax II

LEA DX, PROMPT

MOV AH, 9

Mov ex, 10

MO1 AH, 2

Mor DL, 48

@ Loop:

1NT 21H

INC PL

DEC CX

JMNZ @LOOP

MOV AH, 4CH

1NT 21 H

WAIN ENDD

END WAIN WIS IN

HASSEMBLY Example 7 - Sum of two integens

- · MODE SMALL
- · STACK (OO H
- · DATA

PROMIT-1 DB 'Enter the First digit : \$'

Time: Date: //

PROMPT\_2 DB VENTER Second digit

PROMPT-3 UB ISUM of First and second,

\_c MA FOR

83. 40 kam

ABTAE-J DB J HIE LIN

, CODE

MAIN PROC

MOY DS, AX.

MOY AH, 9

INT ZIA MAN ONT

SUB AL, 30H

Mov DL, ODH WOOD - DATES

INT 51H

LEA DX, PROMPT 2

MOV AH, 9

Sub:

MOY AH, 1

1112 JIH

SUB AL, 30 A

MOY VALUE\_2, AL

Mov 14, 2

MOY 101 0 1014

INT 21 H

MOY DL, OAH

1WT 21H

LEA DX, PROMPT, 3

MOY AH, 9

1MT 21 H

MOY AL, YALVE-1

HDD HTP NATOE-5

ADD AL, 30H

Mor AH, 2

MOV DL, AL

1NT 21 14

MON AH, GCH
INT 21H
MAIN ENDP
END MAIN