

## Ahsanullah University of Science & Technology

## **Department of Computer Science & Engineering**

Course No : CSE2214

Course Title : Assembly Language Programming Sessional

Assignment No : 06

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Section : A

Q-1. Write a program that will prompt the user to enter a her digit (0-F), display it on the next line in decimal and ask the user types "Y", the program repeats, it the user types "N" the program terminates. It the user enters on illegal character prompt the user to try again.

 $\Rightarrow$ 

. MODEL SMALL

. STACK WOA

· DATA

PROMPT\_1 DB 'TRY AGAIN. \$'

PROMPT\_2 DB, ENER A HEX DIDIT "O-F":\$

OUTPUT\_ PRMPT DB OAH, ODH, OUTPUT : \$'

ASK\_PROMPT DB OAM, ODH, DO YOU WANT
ANOTHER INPUT: \$'

· CODE

MAIN PROC

MOV AX, @ DATA MOV DS, AX TOP :

MOV AH, 9

LEA DX, PROMPT\_2

INT 21H

MON AH, 1

INT 21 H

MOV BL, AL

COMP

CMP BL, 30 H

JL TRY\_MSCZ

CMP BL, 46H

JG TRY\_MSG

CMP BL, 39H

JLE DIGIT

MOV AH, 9

LEA DX, OUTPUT\_ PRMPT

INT 21H

SUB BL, TH

MOV AH, L

MOV DL, BIH

INT 21H

MOV DL, BL

INT 21 H

```
A CADIN:
   MOY AH, 9
   LEA DX, ASK_PROMPT
   147
        214
   MOV AH,1
   INT 214
   MOY AH, L
   MOY DL, OAH
   INT 214
   MOV DZ, ODH
   INT 21H
   CMP BH, 'Y'
   JE
        TOP
   comp BHIY,
    JE TOP
    JMP END
DICIT:
     MOV AH, 9
     LEA DX, OUTPUT_ PRMPT
     INT
         21 17
     MOV
          AH, 2
     MOV
          DL. BZ
     TNT
          21 H
     JMP ACIAIN
```

## TRY\_MGCZ:

MOV AH, 9 LEA DX, PROMPT\_1 INT 21H JMP TOP

END\_:

MOV AH, 4CH

INT 21 H

MAIN ENDP

END MAINE

9.2. Write a program to read two capital Letters and display them on thent line in Alphabetical order.

 $\Rightarrow$ 

. MODEL SMALL

. STACK 100 H

· DATA

PROMT\_ | DB 'ENTER THE FIRST CAPITAL LETTER : '\$'

PROMT\_2 DB, ENTER THE SECOND CAPITAL LETTER: '\$'

PROMT\_3 DB, THE GIVEN LETTRS IN ALPHABETICAL OFDER ARE

NEXT\_LINE DB ODA, OAH, " \$"

· CODE

MAIN PROC

MON' AX, @ DATA

MOV DS, AX

MOY AH, 2

INT 21 H

MOV AH, 9

LEA DX, NEXT\_LINE

INT 21H

LEA BX, PROMT\_1

INT 21 H

MOV AH,1

INT 21H

MOY BL, AL

MOV AH, 9

LEA DX, NEXT\_LINE

INT 21 A

LEA DX, PROML2

INT 21H

MOV AH, 1

1NT 21H

MOV BH, AL

MOV AH, 9

LEA DX NEXT\_LINE

INT 21 H

LEA DX, PROMT\_B

INT 214

MOV AH, 2

CMP BL, AH

JAE @ GREATER

MOY DL, BL

INF 21H

MOV DL, BH

INT 21H

JMP WEND

@ GREATER:

MOV DZ, BH

INT 21A

MOV DL, BL

INT 2M

@END:

MOV AH, YCH

INT 21H

MAIN ENDP

EMD MAIN