

KHULNA UNIVERSITY OF ENGINEERING AND TECHNOLOGY, KUET

SESSIONAL REPORT

Course No: CSE 2204

Department of: Computer Science and Engineering

Experiment No: 12

Name of the Experiment: To Write an Assembly Language Program that takes a password input and stores 0001h in AX if the password is correct else stores 0000h in AX if the password is incorrect.

Remarks			

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Year: 2nd

Semester: 2nd

No of experiment: 12

Name of experiment: To develop an assembly program that inputs a Joseph in Ax if the password and stores one on in Ax if the password is correct and ooden in Ax if it is incorrect.

Objectives:

- 1. To practice on strong type data in assembly language.
 - 2 To learn to compare string bytes
- 3. To learn about direction flags of 8086 microprocesson
- 4. To execute chain the instructions

Introduction:

A string is a data-type used in program
such as integer and floating point unit, but

is used to represent a group of characterist.

String is an example of a byte onnay and characters is presented as an ASCII each value (0 to 255).

Direction flog is a flog of 8086 that controls left to reight on reight to left direction of string processing. Generally the flog is used to determine the direction i.e. forward on backword in which several byte of data will be copied from one place to in memory to another.

CLD is an instruction that cleans direction flag. If it executes them SI and DI will autometically incremented by quain instructions such as empsb, lodsb, movsb etc.

STD is an instruction that set direction

flag. STD executes to dienement SI and DI

autometically by chain instructions i.g. empsb,

movsb.

CMPSB instruction Compones bytes Es:[01] to

DS:[SI]

Algorithm:

DS: [SI] - | ES: [DI]

Set flogs according to result,

If DF=0 then

SI = SI+1

DJ = DJ+1

Else,

DI = DIF1

SI = SI - I

Apparatus required: emu 8086, laptop.

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The Part of Land

```
ong 10
Methodo log)
code:
ong looh
                    ; passworld to be motered
· data
pass db 'kuet (se'
                     ; length of password.
     equ ($-pass)
sto db len dup(0); password to be given
· code
                ; initializing ex with len
mor ca, len
               is copy the address of pass to SI
lea si, pass
                   copy the address of str to D:
lea dis str
Cld
                   clear direction flag
                  reepeat if string bytes one
repe empsb
                    equal
     inconnect
             if input password does n't matche
                 go to label incorrect
```

Je conrect! if the string byters are equal them
; go to the laber 'connect"

in Connect:

mor ax,0000h; stores 0000h in ax

Connect:

mov ox, coco coolh; stories coolh in ox

Result and Discussion:

In this priogram, we tried to check password from a given password. Actually in this priogram, we tried to check two strings that they are equal on not. If they were equal then we can say password material In this priogram we used many string instructions which are so much necessary for proofing priogramming in

various inputs and we came to a conclusion that our program performed well

Parker To Array . And I I

Conclusion

This experiment was very necessory to learn assembly longuage more penfectly, we learnt and implement various string of instruetions in this program. As we ensured that for every input our program penformed well, so we can make conclusion that our implementation of these instruction worked successfully

YEAR TO ME TO SERVE THE SE

Références:

1. Microprocessor and Intersfereing - by D. B. V. Hall 2 emu 8086/documentation/index. html