

## KHULNA UNIVERSITY OF ENGINEERING AND TECHNOLOGY, KUET SESSIONAL REPORT

Course No: CSE 2204

Department of: Computer Science and Engineering

**Experiment No: 07** 

Name of the Experiment: Developing a program that checks whether two strings are equal or not in assembly language

Remarks			

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**Date of Submission:** <u>19.051.21</u> **Roll:** 1807117

Year: 2nd

Semester: 2nd

No. of experiments Ut

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forms Checking two strings

are equal or not in assembly language.

## Objectives:

- 1. To obtain how to use strings in assembly longuage
- 2. To develop our logic how to compone two
- 3. To use loop properly to perform this experiment successfully.

Introduction: A string is a data type used in program consists of various characters, integer and floating points as a world on sentence. The string is terminated with \$'. So from this, we can get the length of the string with subtracting 9-string's offset.

In order to compare two string, if the length of two strings one not same then, simply check it and then show the rusult that they are not some. If two strings have some site, then we should check each character by character and finally find out that two strings are equal or not.

Apportatus Required! emu 8086, laptop.

## Methodology:

Code:

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lea si str1; store the address of the string 'str1' in SI lea, di, str2; store the address of 'str2' in di mor al len1; store the size of string (str1' in al mor that len2; store the size of 'str2' cmip al ah jne mol-equal; if two strings are not equal then

```
Jump to and equal
mor cx, lend; If they one in some longth then
                 Check byte to byte and storce
                  tue length to CX
cld; increment SI and DI autometically by 1.
                If string bytes are game them
rupe compsb;
                trepeat Compartison.
 jne not-equal; if two string byte oru not
                same then go to mot-equal
 mor res, 'y'; if two strings one same then
                move 'd' to veriable 'res'
 ret
 not-equal! mor rus, 'n'; if two strings are
             rul
                           not some then in'
                           is assigned to vorable
 Str. 1 db 'Kuet CSE'
                            TUS.
 Str 2 db Kuet (SE'
len1 equ ($- str.); length of string 1
len 2 equ ($-stn2); length of strc2.
rus dw
```

Result and Discussion: From this experiment, we got introduced with string. So this experiment was very basic experiment. Here we trued to Compare with two strings that they are equal or not. In this experiment, we learnt the use of variable. In the experiment, we used different strings and everytime we got expected result.

So decision could be made easily, that the experiment works well.

Conclusion: This experiment was necessary for getting knowledge about strings and how it works we tried to develop our logie to penform composison of two strings. After this experiment we can eventually say that, we learnt programming in assembly language efficiently and every basic topics of assembly language programming.

## References:

I Microprocessor and Interrfacing - by

D.V. Hall

2. emu 8086/documentation/index. html.