FR. Conceicao Rodrigues College of Engineering Department of Computer Engineering

8. PASSWORD VERIFICATION.

1. Course, Subject & Experiment Details

| Academic Year | 2023-24 | Estimated Time | Experiment No. 8– 02 Hours |
|------------------------|------------------------|-----------------------|---------------------------------|
| Course & Semester | S.E. (Comps) - Sem. IV | Subject Name | Microprocessor |
| Chapter No. | 2 | Chapter Title | Instruction Set and Programming |
| Experiment Type | Software | Subject Code | CSC405 |

Rubrics

| Timeline (2) | Practical Skill & Applied Knowledge (2) | Output (3) | Postlab (3) | Total (10) | Sign |
|--------------|---|------------|-------------|---------------|------|
| | | | | | |

2. Aim & Objective of Experiment

PASSWORD VERIFICATION

Objective : The objective is to make use of string instruction and MACRO, to check whether the entered password by the user is correct or not.

3. Software Required

TASM Assembler

4. Brief Theoretical Description

Pre-Requisites: 1. Knowledge of TASM directives.

2. Knowledge of DOS interrupts.

3. Knowledge of string instruction and MACRO

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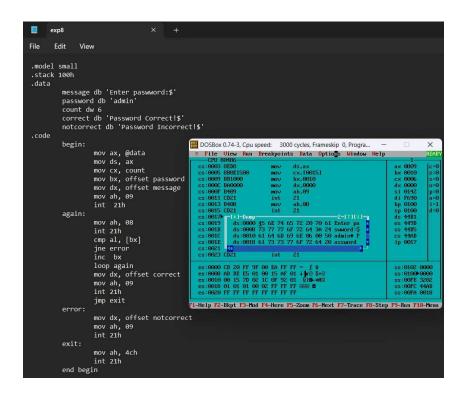
5. Algorithm:

- 1. Store Initial password into Array.
- 2. Write Macro for printing output message.
- 3. Write Macro to display '*'.
- 4. Initialize the data segment.
- 5. Set the counter value=no. of character present in password.
- 6. Load Effective address of stored password in BX.
- 7. Take input from the keyboard.
- 8. Compare input with the password string.
- 9. If zero=0, both value are equal. Go to step 10.
- .If zero is not equal to 0.Go to step 15.
- 10. display '*' Macro.
- 11. Increment BX.
- 12. Decrement counter by 1.
- 13. Check if counter=0.If not, Repeat step 7 to 12.
- 14. Display Macro message for correct password, Go to step 16.
- 15. Display '*' macro and Macro message for wrong password.
- 16. End

6. Conclusion:

Hence, using string instruction and MACRO, we have checked whether the entered password by the user is correct or not.

CODE & OUTPUT:



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