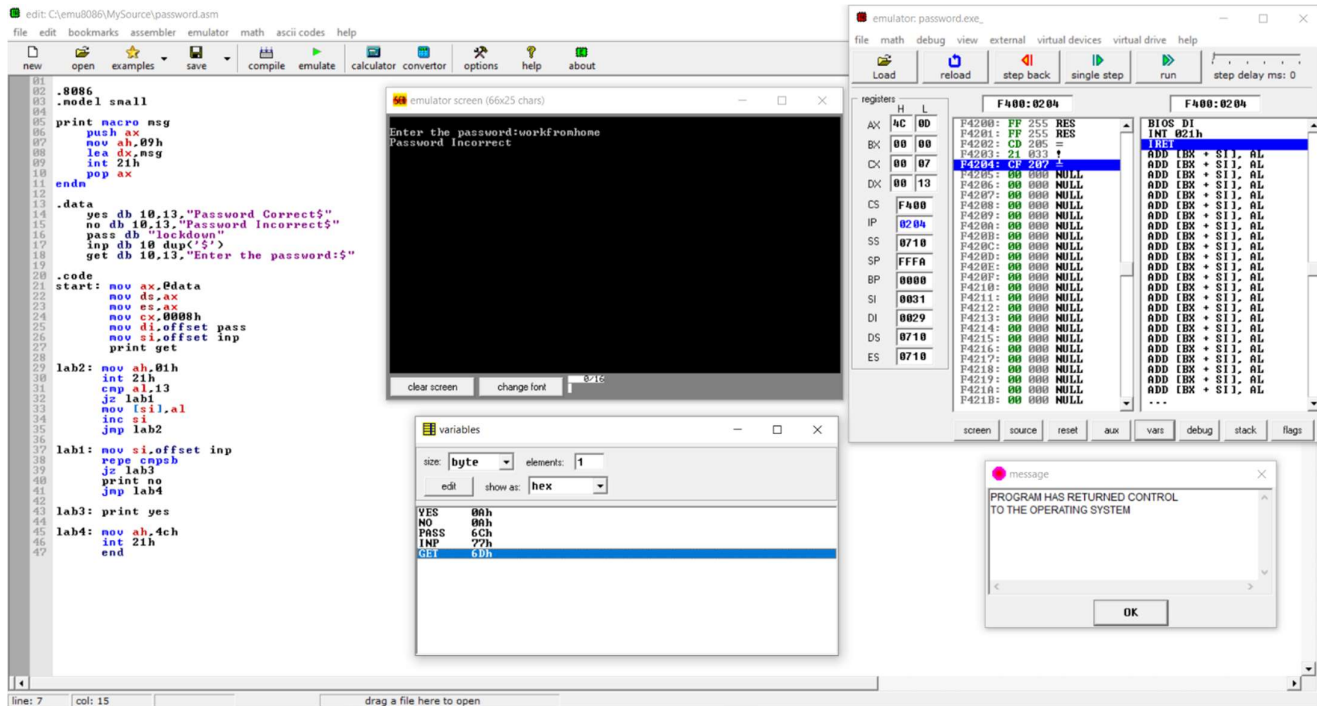
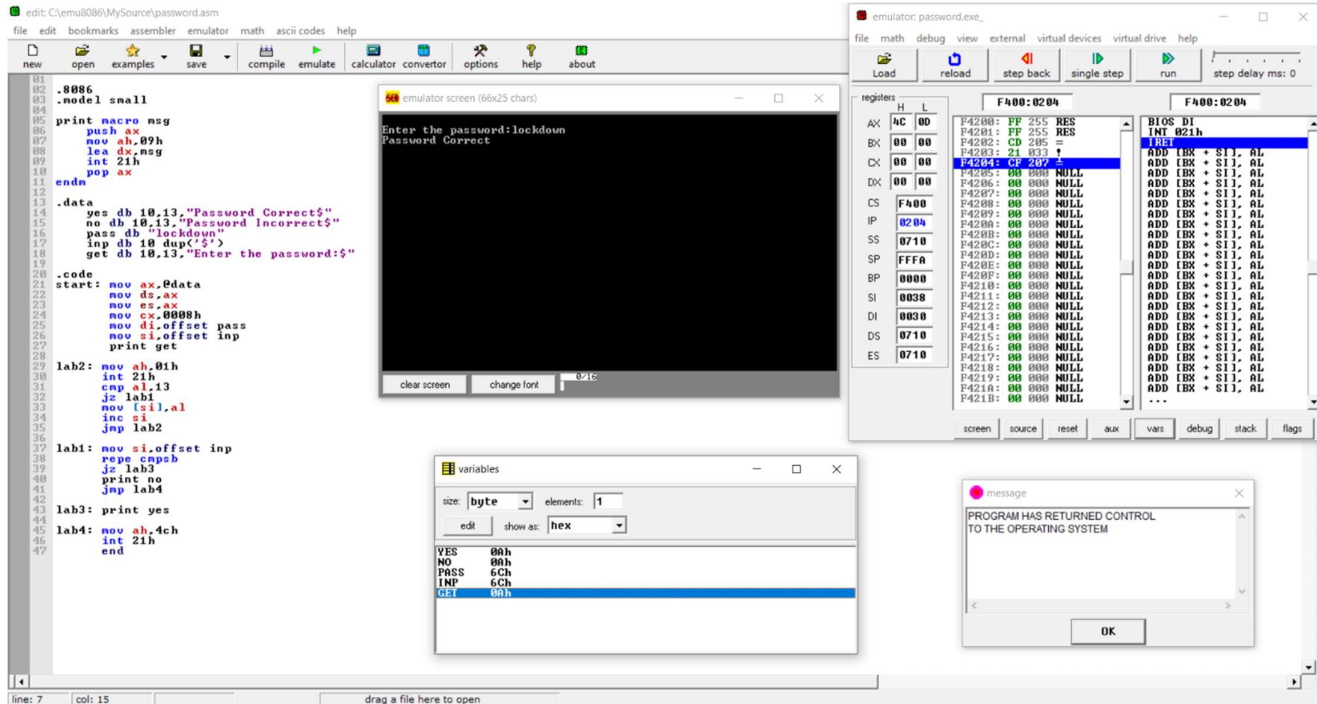


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# Micro Processor Practical- 3.

1. Write a program to check for password string:



## 2. Write a Program to Check for Palindrome String:

The image displays two screenshots of an x86-64 emulator running a program to check for a palindrome string. The program is written in assembly and uses a macro to print messages. It prompts the user to enter a string and then checks if it is a palindrome.

**First Screenshot:** The user enters "noon". The program outputs "The String is a Palindrome".

**Second Screenshot:** The user enters "helloworld". The program outputs "The String is not a Palindrome".

The assembly code is as follows:

```
.8086
.model small
.print macro msg
    push ax
    mov ah,09h
    lea dx,msg
    int 21h
    pop ax
endm

.data
    get db 10,13,"Enter the String:$"
    yes db 10,13,"The String is a Palindrome"
    no db 10,13,"The String is not a Palindrome"
    inp db 20 dup('$')
    rev db 20 dup('$')

.code
start: mov ax,@data
       mov ds,ax
       mov es,ax
       mov si,offset inp
       mov di,offset rev
       mov cx,0000h
       print get

lab2:  mov ah,01h
       int 21h
       cmp al,13
       jz lab1
       mov [si],al
       inc si
       inc di
       jmp lab2

lab1:  mov bl,cl
       dec si
       mov al,[si]
       mov [di],al
       inc di
       loop lab3

lab3:  mov cl,bl
       mov di,offset inp
       mov si,offset rev
       repe cmpsb
       je lab4
       print no
       jmp lab5

lab4:  print yes
lab5:  mov ah,4ch
       int 21h
       end
```