Batch - A

Assignment 7

1.) Write a program to create a macro to take name and age as input from user and display the same on user screen

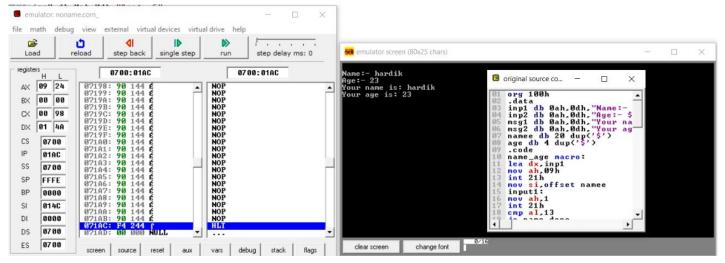
SOURCE CODE:

```
org 100h
.data
inp1 db 0ah,0dh,"Name:- $"
inp2 db 0ah,0dh,"Age:- $"
msg1 db 0ah,0dh,"Your name is: $"
msg2 db 0ah,0dh,"Your age is: $"
namee db 20 dup('$')
age db 4 dup('$')
.code
name age macro:
lea dx,inp1
mov ah,09h
int 21h
mov si,offset namee
input1:
mov ah,1
int 21h
cmp al,13
je name done
mov [si],al
inc si
jmp input1
name_done:
lea dx,inp2
mov ah,09h
int 21h
mov si,offset age
input2:
mov ah,1
int 21h
cmp al,13
je display
mov [si],al
inc si
```

jmp input2

display: lea dx,msg1 mov ah,09h int 21h lea dx,namee mov ah,09h int 21h lea dx,msg2 mov ah,09h int 21h lea dx,age mov ah,09h int 21h endm name_age end

OUTPUT:



2.) Write a program to check if the password entered by user is correct or not SOURCE CODE:

org 100h

.data
correct db "Correct\$"
length db 7
password db 10 dup('\$')
len db 0
inp db "Enter your password : \$"
success db 0ah,0dh,"Login Successful!!\$"
failed db 0ah,0dh,"Login Failed!!\$"
.code
lea dx,inp
mov ah,09h
int 21h

lea si,password

input:

mov ah,1

int 21h

cmp al,13

je check

mov [si],al

inc len

inc si

jmp input

check:

mov dl,length

cmp dl,len

jne fail

mov cl,length

lea si,Correct

lea di,password

compare:

cmpsb

jnz fail

loop compare

lea dx,success

mov ah,09h

int 21h

jmp done

fail:

lea dx,failed

mov ah,09h

int 21h

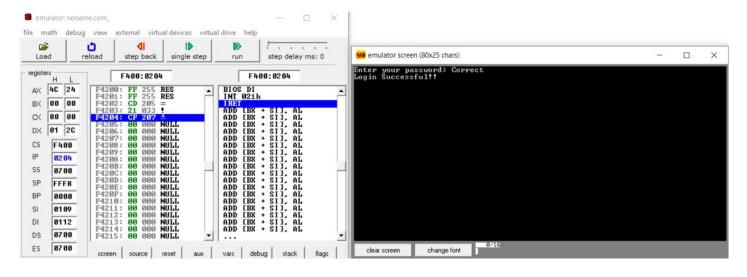
done:

mov ah,4ch

int 21h

end

OUTPUT:



3.) Write a program to check if a string entered by user is palindrome or not SOURCE CODE:

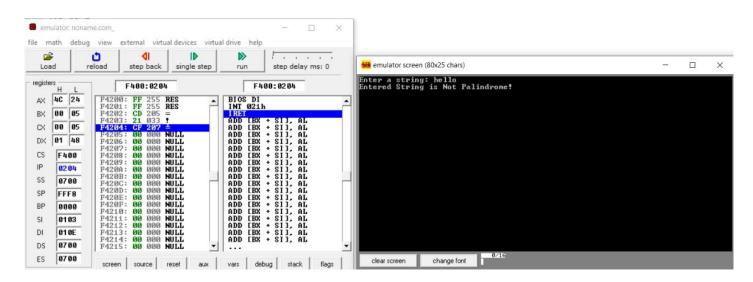
```
org 100h
    .data
    str db 10 dup('$')
    len db 0
    rev str db 10 dup('$')
    inp db "Enter a string: $"
    yes db 0ah,0dh,"Entered String is Palindrome!$"
    no db 0ah,0dh,"Entered String is Not Palindrome!$"
    .code
    lea dx,inp
    mov ah,09h
    int 21h
    lea si,str
    input:
    mov ah,1
    int 21h
    cmp al,13
    je check
    mov [si],al
    inc len
    inc si
    imp input
    check:
    mov bx,0
    mov bl,len
    mov si,bx
    mov bx,0
    dec si
    while:
    cmp str[bx],'$'
```

je next

mov al,str[bx] mov rev_str[si],al inc bx dec si imp while next: mov rev_str[bx],'\$' mov cl,len lea si,str lea di,rev_str compare: cmpsb jnz fail loop compare lea dx,yes mov ah,09h int 21h jmp done fail: lea dx,no mov ah,09h int 21h done: mov ah,4ch int 21h

OUTPUT:

end



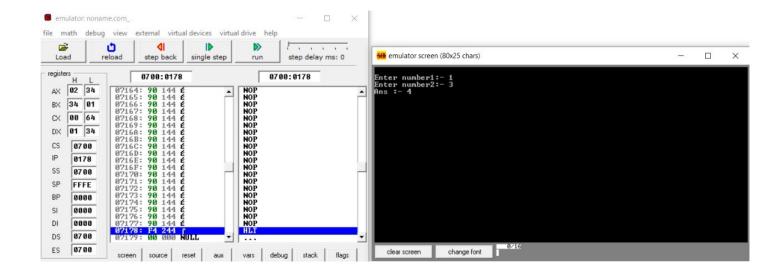
4.) Write a program for addition of two numbers taken from user (ASCII addition)

SOURCE CODE:

```
org 100h
    .data
    num1 db 0ah,0dh,"Enter number1 :- $"
    num2 db 0ah,0dh,"Enter number2 :- $"
    msg db 0ah,0dh,"Ans :- $"
    .code
    lea dx,num1
    mov ah,09h
    int 21h
    mov ah,01
    int 21h
    mov bl,al
    lea dx,num2
    mov ah,09h
    int 21h
    mov ah,01
    int 21h
    mov bh,al
    sub bh,30h
    sub bl,30h
    add bh,bl
    add bh,30h
    lea dx,msg
    mov ah,09h
    int 21h
    mov dl,bh
    mov ah,02h
    int 21h
```

OUTPUT:

end



5.) Write a program subtraction of two numbers taken from user (ASCII subtraction) SOURCE CODE:

```
org 100h
    .data
    num1 db 0ah,0dh,"Enter number1 :- $"
    num2 db 0ah,0dh,"Enter number :- $"
    msg db 0ah,0dh,"Ans :- $"
    .code
    lea dx,num1
    mov ah,09h
    int 21h
    mov ah,01
    int 21h
    mov bh,al
    lea dx,num2
    mov ah,09h
    int 21h
    mov ah,01
    int 21h
    mov bl,al
    sub bh,30h
    sub bl,30h
    sub bh,bl
    add bh,30h
    lea dx,msg
    mov ah,09h
    int 21h
    mov dl,bh
    mov ah,02h
```

int 21h end

OUTPUT:

