

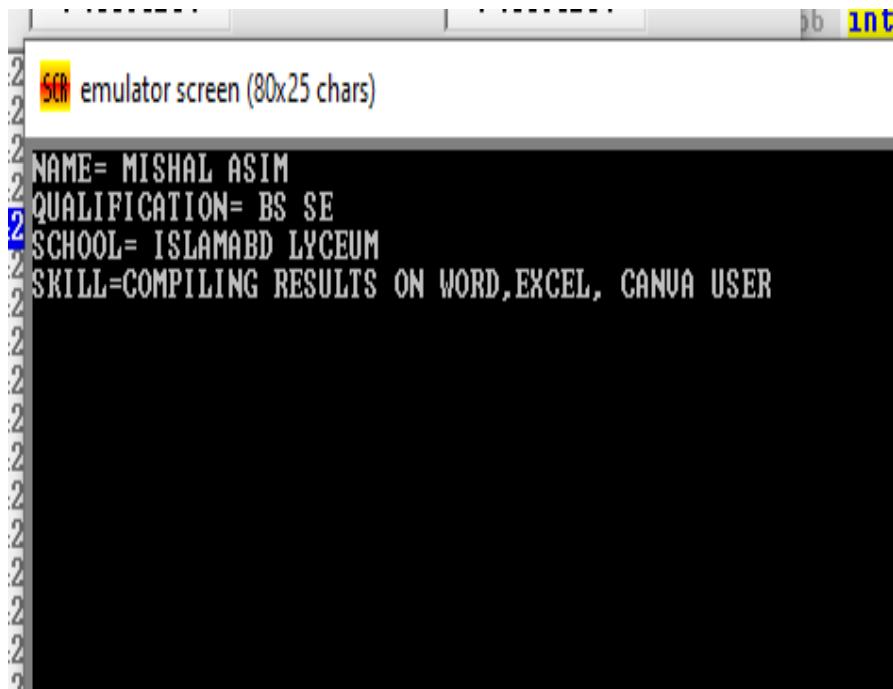
Name: MISHAL ASIM

SAP: 62516

TASK 01

```
.model small
.stack 100h
.data
Msg1 DB 'NAME= MISHAL ASIM$'
Msg2 DB 'QUALIFICATION= BS SE$'
Msg3 DB 'SCHOOL= ISLAMABD LYCEUM$'
Msg4 DB 'SKILL=COMPILEING RESULTS ON WORD,EXCEL, CANVA USER$'
.code
main proc
    mov ax,@data
    mov ds,ax
    mov dl, msg1
    mov dx, offset msg1
    mov ah,9
    int 21h
    mov dl,10
    mov ah,2
    int 21h
    mov dx,13
    mov ah,2
    int 21h
    mov ax,@data
    mov ds,ax
    mov dl, msg2
    mov dx, offset msg2
    mov ah,9
```

```
int 21h
    mov dl,10
    mov ah,2
    int 21h
    mov dx,13
    mov ah,2
    int 21h
    mov ax,@data
    mov ds,ax
    mov dl,msg3
    mov dx,offset msg3
    mov ah,9
    int 21h
    mov dl,10
    mov ah,2
    int 21h
    mov dx,13
    mov ah,2
    int 21h
    mov ax,@data
    mov ds,ax
    mov dl,msg4
    mov dx,offset msg4
    mov ah,9
    int 21h
    mov ah,4ch
    int 21h
main endp
end main
```



TASK 02

emu8086 - assembler and microprocessor emulator 4.08

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new open examples save compile emulate calculate

```
01 .model small
02 .stack 100h
03 .data
04     msg1 DB 'The user entered$'
05     msg2 DB ' character.$'
06     user DB ?
07 .code
08 main proc
09
10     mov ax,@data
11     mov ds,ax
12
13     mov ah,1
14     int 21h
15
16     mov user,al
17     mov ah,9
18     int 21h
19
20     mov dl,user
21     mov AH,2
22     int 21h
23
24     mov dl,10
25     mov ah,2
26     int 21h
27     mov dx,13
28     mov ah,2
29     int 21h
30
31
32     mov ah,4ch
33     int 21h
34     main endp
35 end main
```

F400:0204 F400:0204

608 emulator screen (80x25 chars)

fThe user enteredf

TASK 03

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new open examples save compile emulate calculator

```
01 .model small
02 .stack 100h
03 .data
04     msg1 DB 'Enter a lowercase letter: $'
05     msg2 DB 'The uppercase letter is: $'
06
07 .code
08 main proc
09     mov ax, @data
10    mov ds, ax
11    mov ah, 9
12    mov dx, offset msg1
13    int 21h
14    mov ah, 1
15    int 21h
16
17    sub al, 32
18
19    mov dl, 13
20    mov ah, 2
21    int 21h
22    mov dl, 10
23    mov ah, 2
24    int 21h
25
26    mov ah, 9
27    mov dx, offset msg2
28    int 21h
29
30    mov dl, al
31    mov ah, 2
32    int 21h
33
34    mov ah, 4Ch
35    int 21h
36 main endp
37 end main
```