

Daffodil International University
Fall 2022

Teacher Initial:
SNS

Department of Computer Science and Engineering
Lab test 01 Open Book Examination Answer Script

Full Marks: 15 Allowed, Time: 1.00 hrs.

Date: 29/09/2022

General Information (must be filled by the student)

COURSE CODE: CSE 232

SECTION: PC-A

PROGRAM: DAY

STUDENT ID: 203-15-3881

TIME STARTED: 2.30 a.m

TIME ENDED: 3.30 a.m

[Student must either TYPE or HAND WRITE the answers in this template; In case needed just write your detail on the paper using hand]

Ans to the que no – 1

```
.model small
.stack 100h
.data
    msg1 db "Your name: $"
    msg2 db "Your ID: $"
.code
main proc
    mov ax,@data
    mov ds,ax

    lea bx,msg1

    mov ah,9
    mov dx,bx
    int 21h

    mov ah,10
    int 21h

    mov ah,2
    mov dl,10
    int 21h
    mov dl,13
    int 21h

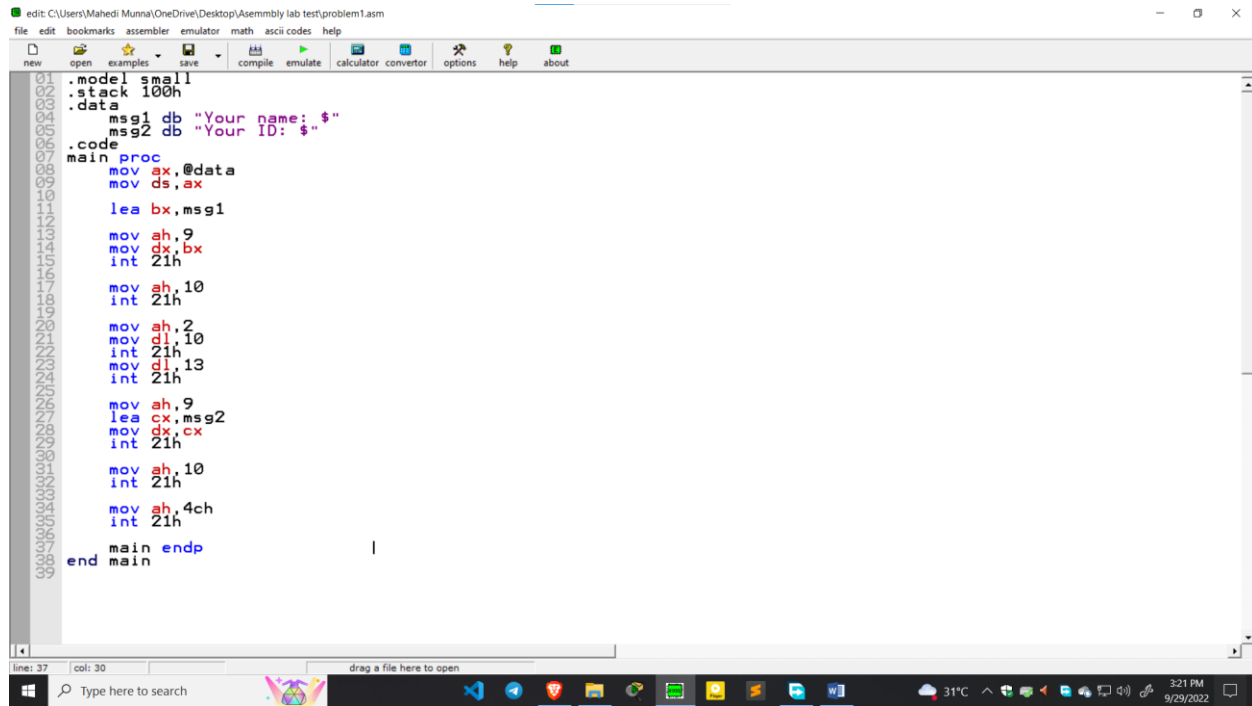
    mov ah,9
    lea cx,msg2
    mov dx,cx
    int 21h
```

**** Plagiarism will be checked while you submit your response. You are advised to be honest during the open book exam.**

```
mov ah,10  
int 21h
```

```
mov ah,4ch  
int 21h
```

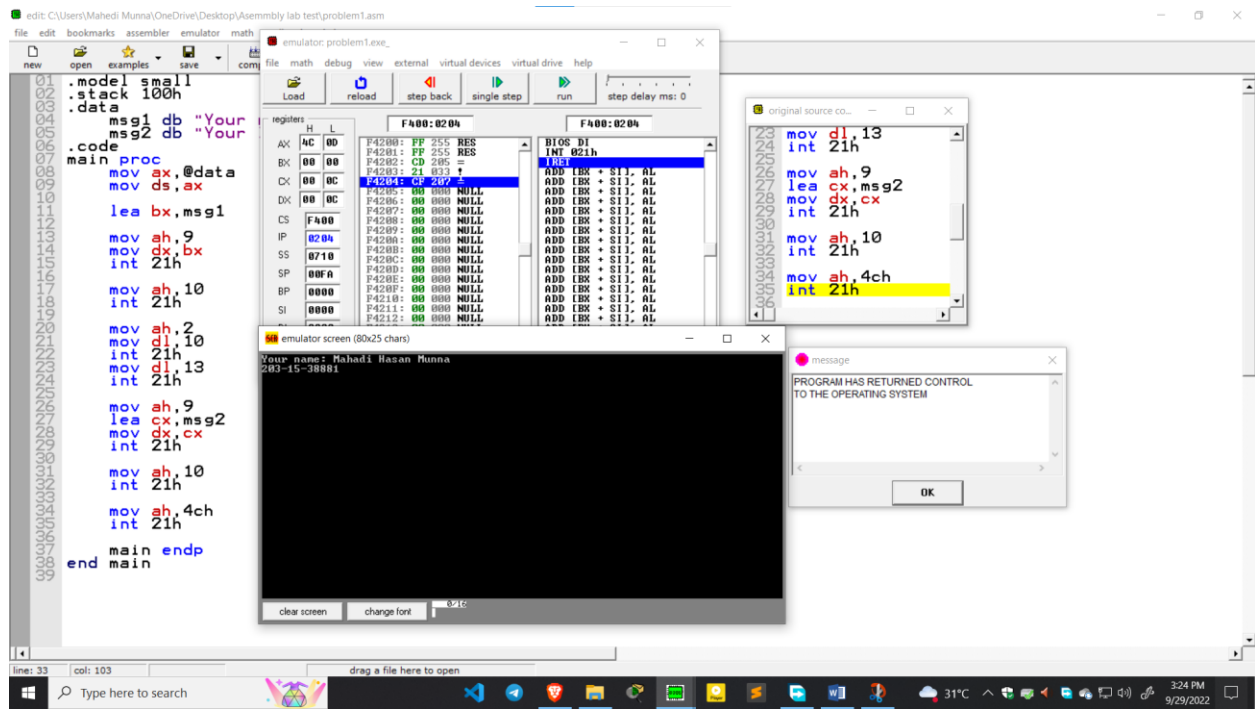
```
main endp  
end main
```



The screenshot shows an assembly editor window titled "edit: C:\Users\Mahedi Munna\OneDrive\Desktop\Assembly lab test\problem1.asm". The window contains the following assembly code:

```
01 .model small  
02 .stack 100h  
03 .data  
04 msg1 db "Your name: $"  
05 msg2 db "Your ID: $"  
06 .code  
07 main proc  
08 mov ax,@data  
09 mov ds,ax  
10  
11 lea bx,msg1  
12  
13 mov ah,9  
14 mov dx,bx  
15 int 21h  
16  
17 mov ah,10  
18 int 21h  
19  
20 mov ah,2  
21 mov dl,10  
22 int 21h  
23 mov dl,13  
24 int 21h  
25  
26 mov ah,9  
27 lea cx,msg2  
28 mov dx,cx  
29 int 21h  
30  
31 mov ah,10  
32 int 21h  
33  
34 mov ah,4ch  
35 int 21h  
36  
37 main endp  
38 end main  
39
```

The status bar at the bottom indicates "line: 37" and "col: 30". The Windows taskbar is visible at the bottom with the date "9/29/2022" and time "3:21 PM".



Ans to the que no - 2

```
.model small
.stack 100h
.data
    msg1 db "Enter 2 input number: $"
.code
main proc

    mov ax,@data
    mov ds,ax

    lea bx,msg1

    mov ah,9
    mov dx,bx
    int 21h

    mov ah,1
    int 21h
    mov bl,al

    mov ah,1
    int 21h
    mov cl,al

    cmp bl,cl
    jg level1

    jmp level2
```

**** Plagiarism will be checked while you submit your response. You are advised to be honest during the open book exam.**

```
level1:  
mov ah,2  
mov dl,10  
int 21h  
mov dl,13  
int 21h
```

```
mov dl,bl  
int 21h
```

```
jmp event
```

```
level2:  
mov ah,2  
mov dl,10  
int 21h  
mov dl,13  
int 21h  
mov dl,cl  
int 21h
```

```
event:  
cmp bl,cl  
jg sub1
```

```
cmp bl,cl  
jl sub2
```

```
sub1:  
sub bl,cl  
cmp bl,'1'  
je exit
```

```
jmp event
```

```
sub2:  
sub cl,bl  
cmp cl,'1'  
je exit
```

```
jmp event
```

```
exit:  
mov ah,4ch  
int 21h
```

```
main endp  
end main
```

```
edit: C:\Users\Mahedi Munnal\OneDrive\Desktop\Assembly lab test\problem2.asm
file edit bookmarks assembler emulator math ascii codes help
new open examples save compile emulate calculator convertor options help about
01 .model small
02 .stack 100h
03 .data
04     msg1 db "Enter 2 input number: $"
05 .code
06 main proc
07
08     mov ax,@data
09     mov ds,ax
10
11     lea bx,msg1
12
13     mov ah,9
14     mov dx,bx
15     int 21h
16
17     mov ah,1
18     int 21h
19     mov bl,al
20
21     mov ah,1
22     int 21h
23     mov cl,al
24
25     cmp bl,cl
26     jg level1
27
28     jmp level2
```

```
edit: C:\Users\Mahedi Munnal\OneDrive\Desktop\Assembly lab test\problem2.asm
file edit bookmarks assembler emulator math ascii codes help
new open examples save compile emulate calculator convertor options help about
28     jmp level2
29
30     level1:
31     mov ah,2
32     mov dl,10
33     int 21h
34     mov dl,13
35     int 21h
36
37     mov dl,bl
38     int 21h
39
40
41     jmp event
42
43     level2:
44     mov ah,2
45     mov dl,10
46     int 21h
47     mov dl,13
48     int 21h
49     mov dl,cl
50     int 21h
51
52     event:
53     cmp bl,cl
54     jg sub1
55
```

Student ID:

The screenshot shows a Windows desktop environment. A code editor window is open, displaying assembly code. The code is as follows:

```

52 event:
53 cmp b1,c1
54 jg sub1
55
56 cmp b1,c1
57 jl sub2
58
59 sub1:
60 sub b1,c1
61 cmp bl,'1'
62 je exit
63
64 jmp event
65
66 sub2:
67 sub c1,b1
68 cmp cl,'1'
69 je exit
70
71 jmp event
72
73
74 exit:
75 mov ah,4ch
76 int 21h
77
78 main endp
79 end main

```

The code editor has a menu bar with options: file, edit, bookmarks, assembler, emulator, math, ascii codes, help. Below the menu bar is a toolbar with icons for new, open, examples, save, compile, emulate, calculator, convertor, options, help, and about. The code is color-coded: keywords (event, sub1, sub2, exit, jmp, end) are in blue, and identifiers (b1, c1, cl, bl, ah, 4ch, 21h) are in red. The status bar at the bottom of the editor shows 'line: 71' and 'col: 35'. Below the code editor is a taskbar with various application icons and a search bar. The system clock in the bottom right corner shows '3:13 PM' and '9/29/2022'.

The screenshot shows a Windows 10 desktop with a DOS emulator running. The main window is titled "emu8086" and displays assembly code on the left and registers/memory on the right. The code includes instructions like "je exit", "jmp event", "mov ah, 4ch", and "int 21h". A message box titled "message" is displayed in the foreground, stating "PROGRAM HAS RETURNED CONTROL TO THE OPERATING SYSTEM". The taskbar at the bottom shows various application icons and the system clock indicating 3:14 PM on 9/29/2022.

**** Plagiarism will be checked while you submit your response. You are advised to be honest during the open book exam.**

Student ID:

**** Plagiarism will be checked while you submit your response. You are advised to be honest during the open book exam.**

Student ID:

**** Plagiarism will be checked while you submit your response. You are advised to be honest during the open book exam.**