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# RIPHAH INTERNATIONAL UNIVERSITY

Task 02

66572

BSCS 3

COAL lab

Lab 03

**submitted to**

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## TASK 1

The screenshot shows the emu8086 interface. On the left, there is a code editor window displaying assembly code. On the right, there is a terminal window titled "SCR emulator screen (39x12 chars)" showing the output of the assembly code execution.

```
01 ; You may customize this and other start-up templates;
02 ; The location of this template is c:\emu8086\inc\0_com_template.txt
03
04
05 org 100h
06
07 ; add your code here
08 mov dl,85
09 mov ah,2
10 int 21h
11 ret
12
13
14
15
16
```

The terminal window displays the character 'U' at the top left.

## TASK 2

The screenshot shows the emu8086 interface. On the left, there is a code editor window displaying assembly code. On the right, there is a terminal window titled "SCR emulator screen (49x14 chars)" showing the output of the assembly code execution.

```
01 ; You may customize this and other start-up templates;
02 ; The location of this template is c:\emu8086\inc\0_com_template.txt
03
04
05 org 100h
06
07 ; add your code here
08 mov dl,77
09 mov ah,2
10 int 21h
11
12 mov dl,65
13 mov ah,2
14 int 21h
15
16 mov dl,72
17 mov ah,2
18 int 21h
19
20 mov dl,78
21 mov ah,2
22 int 21h
23
24 mov dl,79
25 mov ah,2
26 int 21h
27
28 mov dl,79
29 mov ah,2
30 int 21h
```

The terminal window displays the names "MAHNOOR ZAHID" and "Rectangular Snip" below it.

emu8086 - assembler and microprocessor emulator 4.08

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```
31 mov dl,82
32 mov ah,2
33 int 21h
34
35 mov dl,32
36 mov ah,2
37 int 21h
38
39 mov dl,90
40 mov ah,2
41 int 21h
42
43 mov dl,65
44 mov ah,2
45 int 21h
46
47 mov dl,72
48 mov ah,2
49 int 21h
50
51 mov dl,73
52 mov ah,2
53 int 21h
54
55 mov dl,68
56 mov ah,2
57 int 21h
58
59
60 ret
```

SCR emulator screen (45x11 chars)

MAHNOOR ZAHID

● Rectangular Snip

clear screen change font 8/16

## TASK 3

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```
01 ; You may customize this and other start-up templates;
02 ; The location of this template is c:\emu8086\inc\0_com_template.txt
03
04 org 100h
05
06 ; add your code here
07 mov ah,1
08 int 21h
09
10 mov dl,al
11 sub dl,32
12 mov ah,2
13 int 21h
14
15 ret
16
17
18
19
20
```

SCR emulator screen (42x8 chars)

cC

● Rectangular Snip

clear screen change font 8/16