



RIPHAH
INTERNATIONAL UNIVERSITY

Computer Organization & Assembly Language

LAB 05

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BSCS-3

Task 1

emu8086 - assembler and microprocessor emulator 4.08

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```
04 ; Mahnoor Zahid
05 ; 66572
06
07 org 100h
08
09 mov ah,1
10 int 21h
11 sub al,48
12 mov bl,al
13
14 mov dl,43
15 mov ah,2
16 int 21h
17
18 mov ah,1
19 int 21h
20 sub al,48
21
22 add bl,al
23
24 mov dl,61
25 mov ah,2
26 int 21h
27
28 mov dl,bl
29 add dl,48
30 mov ah,2
31 int 21h
32
33 ret
--
```

emu8086 emulator screen (52x12 chars)

2+3=5

Rectangular Snip

clear screen change font 0/16

Task 2

emu8086 - assembler and microprocessor emulator 4.08

file edit bookmarks assembler emulator math ascii codes help

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```
04 ; Mahnoor Zahid
05 ; 66572
06
07 mov ah,2
08 mov dl,'7'
09 int 21h
10
11 mov ah,2
12 mov dl,'_'
13 int 21h
14
15 mov ah,2
16 mov dl,'2'
17 int 21h
18
19 mov ah,2
20 mov dl,'='
21 int 21h
22
23 mov al,7
24 sub al,2
25 add al,30h
26
27 mov ah,2
28 mov dl,al
29 int 21h
30 mov ah,4ch
31 int 21h
32
33 ret
```

emu8086 emulator screen (50x13 chars)

7_2=5

Rectangular Snip

clear screen change font 0/16

Task 3

emu8086 - assembler and microprocessor emulator 4.08

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new open examples save compile emulate calculator convertor options help about

```
04 ; Mahnoor Zahid
05 ; 66572
06
07 org 100h
08
09 mov ah,1
10 int 21h
11 mov bl,al
12
13 mov ah,1
14 int 21h
15 mov bh,al
16
17 mov ah,2
18 mov dl,bh
19 int 21h
20
21 mov ah,2
22 mov dl,bl
23 int 21h
24
25 mov ah,4ch
26 int 21h
27
28 ret
```

emu8086 emulator screen (47x10 chars)

9559

Rectangular Snip

clear screen change font 0/16