FACULTY OF COMPUTING
RIPHAH INTERNATIONAL UNIVERSITY

LAB

Submitted by : Simaab Malik

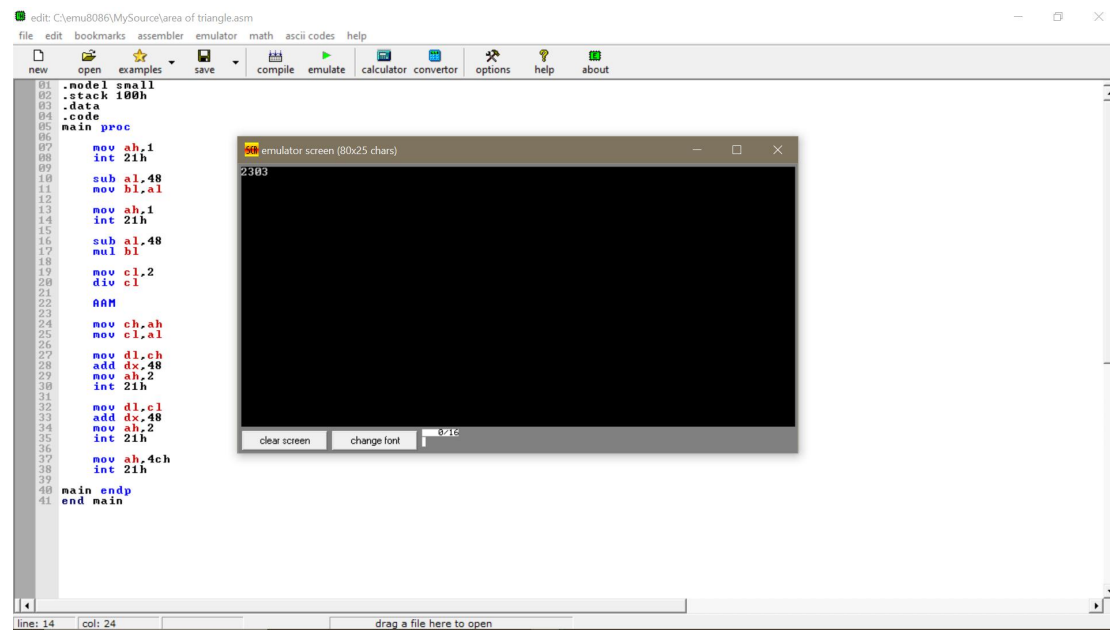SapID : 54910

BS-SE 3rd Semester

Submitted to : Ma'am Fareeha

Date : 03/10/2024

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Subject : **COAL - LAB**
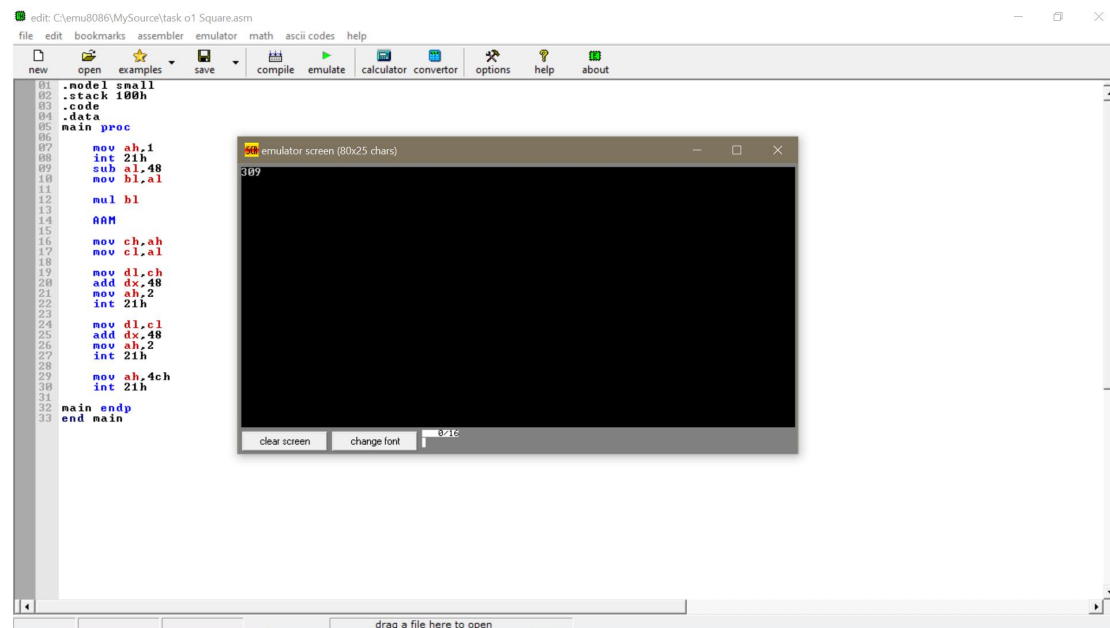
Task : 01(area)

```
01 .model small
02 .stack 100h
03 .data
04 .code
05 main proc
06
07     mov ah,1
08     int 21h
09
10     sub al,48
11     mov bl,al
12
13     mov ah,1
14     int 21h
15
16     sub al,48
17     mul bl
18
19     mov cl,2
20     div cl
21
22     AAM
23
24     mov ch,ah
25     mov cl,ch
26
27     mov dl,ch
28     add dx,48
29     mov ah,2
30     int 21h
31
32     mov dl,cl
33     add dx,48
34     mov ah,2
35     int 21h
36
37     mov ah,4ch
38     int 21h
39
40 main endp
41 end main
```

emulator screen (80x25 chars)

```
2303
```

clear screen   change font
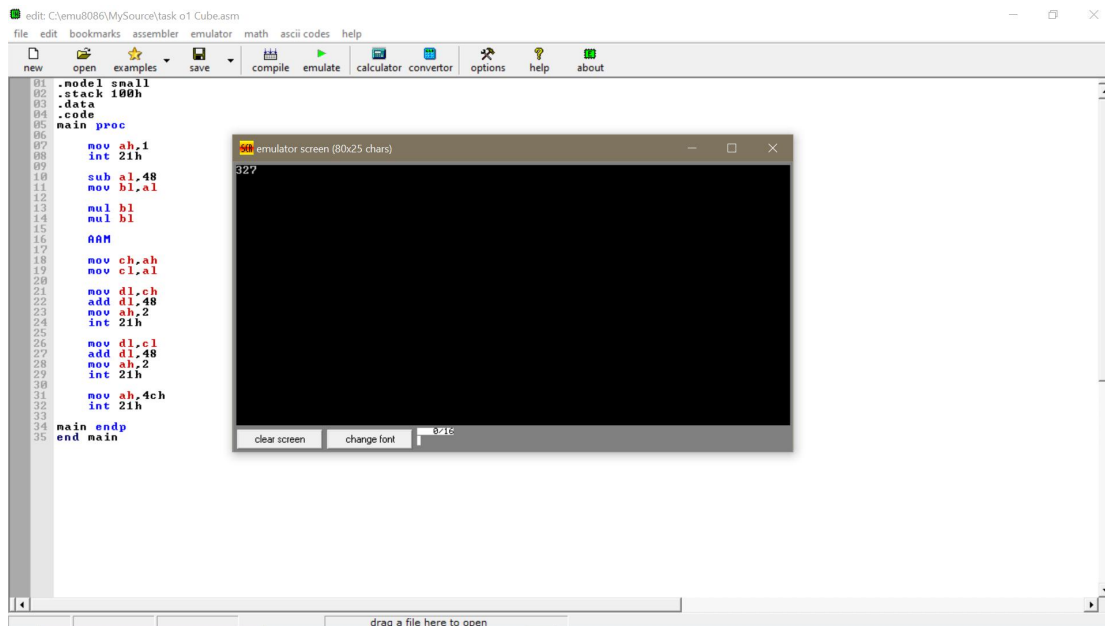
line: 14   col: 24   drag a file here to open

Task : 02(square)

```
01 .model small
02 .stack 100h
03 .code
04 .data
05 main proc
06
07     mov ah,1
08     int 21h
09     sub al,48
10     mov bl,al
11
12     mul bl
13
14     AAM
15
16     mov ch,ah
17     mov cl,al
18
19     mov dl,ch
20     add dx,48
21     mov ah,2
22     int 21h
23
24     mov dl,cl
25     add dx,48
26     mov ah,2
27     int 21h
28
29     mov ah,4ch
30     int 21h
31
32 main endp
33 end main
```

emulator screen (80x25 chars)

```
309
```

clear screen   change font
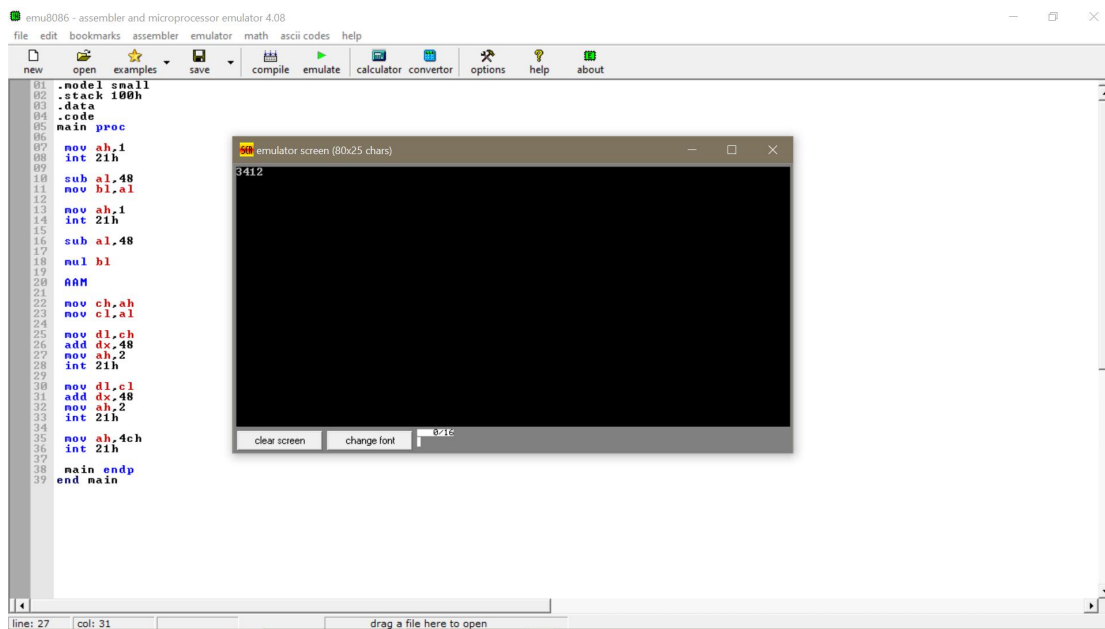
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Task : 03(cube)

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 .code
05 main proc
06
07     mov ah,1
08     int 21h
09
10     sub al,48
11     mov bl,al
12
13     mul bl
14     mul bl
15
16     AAM
17
18     mov ch,ah
19     mov cl,al
20
21     mov dl,ch
22     add dl,48
23     mov ah,2
24     int 21h
25
26     mov dl,cl
27     add dl,48
28     mov ah,2
29     int 21h
30
31     mov ah,4ch
32     int 21h
33
34 main endp
35 end main
```

emulator screen (80x25 chars)   — □ ×

327

clear screen   change font   0/16

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Task : 04(muliplication 2 no.s)

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 .code
05 main proc
06
07     mov ah,1
08     int 21h
09
10     sub al,48
11     mov bl,al
12
13     mov ah,1
14     int 21h
15
16     sub al,48
17
18     mul bl
19
20     AAM
21
22     mov ch,ah
23     mov cl,al
24
25     mov dl,ch
26     add dx,48
27     mov ah,2
28     int 21h
29
30     mov dl,cl
31     add dx,48
32     mov ah,2
33     int 21h
34
35     mov ah,4ch
36     int 21h
37
38 main endp
39 end main
```

emulator screen (80x25 chars)   — □ ×

3412

clear screen   change font   0/16

line: 27   col: 31   drag a file here to open