



RIPHAH
INTERNATIONAL UNIVERSITY

Computer Organization & Assembly Language

LAB 11

Submitted to:

Ma'am Rehana

Submitted by:

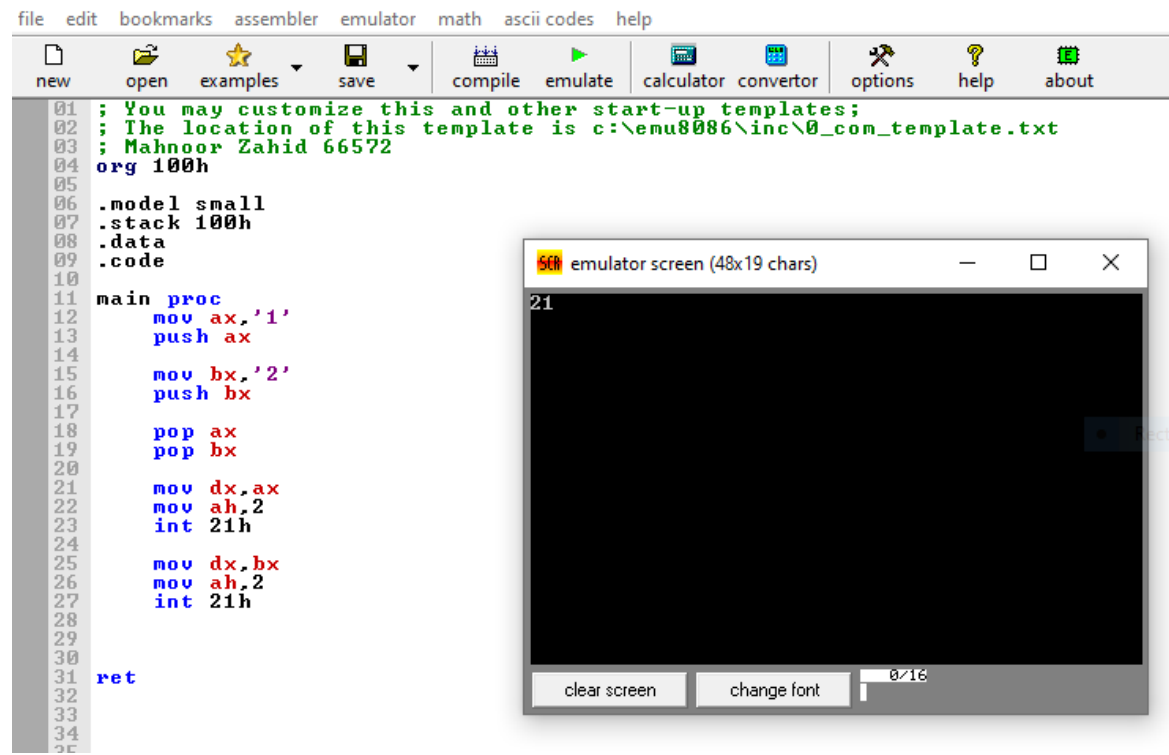
Mahnoor Zahid

66572

BSCS-3

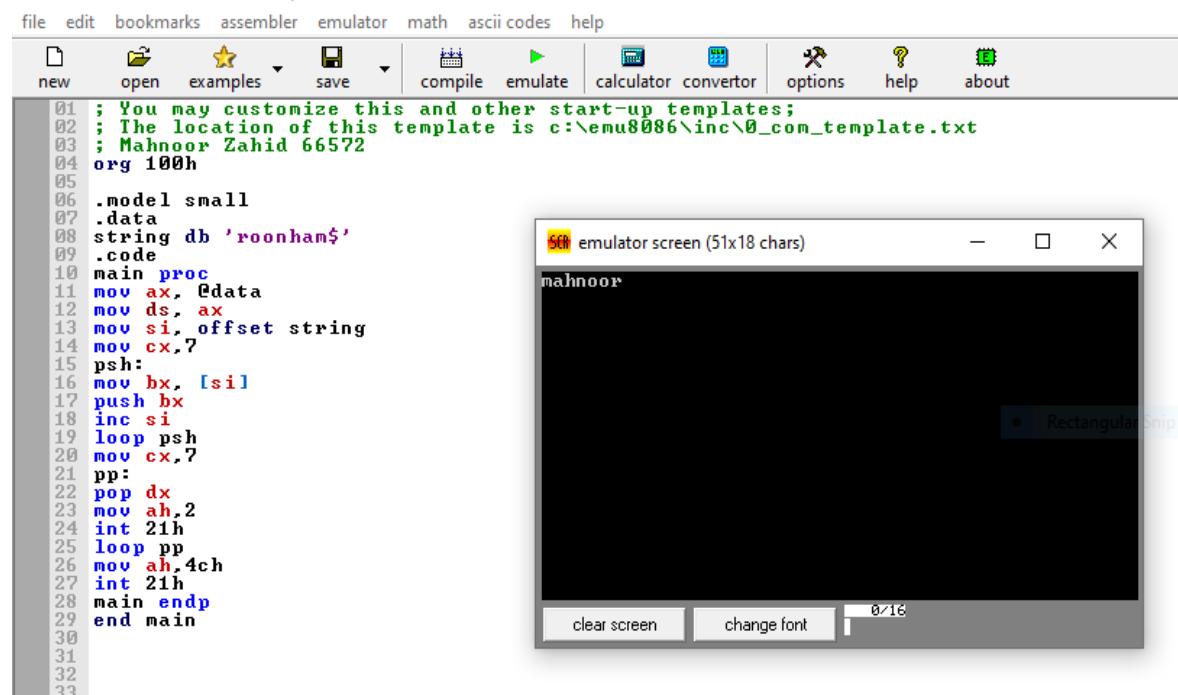
Task 1 lab

emu8086 - assembler and microprocessor emulator 4.08



Task 2 lab

emu8086 - assembler and microprocessor emulator 4.08



Task 1

emu8086 - assembler and microprocessor emulator 4.08

file edit bookmarks assembler emulator math ascii codes help

new open examples save compile emulate calculator convertor options help about

```
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 ; Mahnoor Zahid 66572
04 org 100h
05
06 .model small
07 .data
08 string db '27566 roonhaM$'
09 .code
10 main proc
11 mov ax, @data
12 mov ds, ax
13 mov si, offset string
14 mov cx, 13
15 psh:
16 mov bx, [si]
17 push bx
18 inc si
19 loop psh
20 mov cx, 13
21 pp:
22 pop dx
23 mov ah, 2
24 int 21h
25 loop pp
26 mov ah, 4ch
27 int 21h
28 main endp
29 end main
30
31
32
33
```

emu8086 emulator screen (44x15 chars)

Mahnoor 66572

clear screen change font 0/16

Task 2

emu8086 - assembler and microprocessor emulator 4.08

file edit bookmarks assembler emulator math ascii codes help

new open examples save compile emulate calculator convertor options help about

```
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 ; Mahnoor Zahid 66572
04
05 org 100h
06
07 .model small
08 .stack 100h
09 .data
10 .code
11 main proc
12 mov ax, @data
13 mov ds, ax
14
15 mov cx, 10
16 mov dl, '0'
17 push:
18 mov ah, 0
19 push dx
20 inc dl
21 loop push
22 mov cx, 10
23 pop:
24 pop dx
25 mov ah, 2
26 int 21h
27 loop pop
28
29 mov ah, 4Ch
30 int 21h
31 main endp
32 ret
33
```

emu8086 emulator screen (50x19 chars)

9876543210

clear screen change font 0/16