RIPHAH
INTERNATIONAL UNIVERSITY

Computer Organization & Assembly Language

LAB 12

Submitted to:

Ma'am Rehana

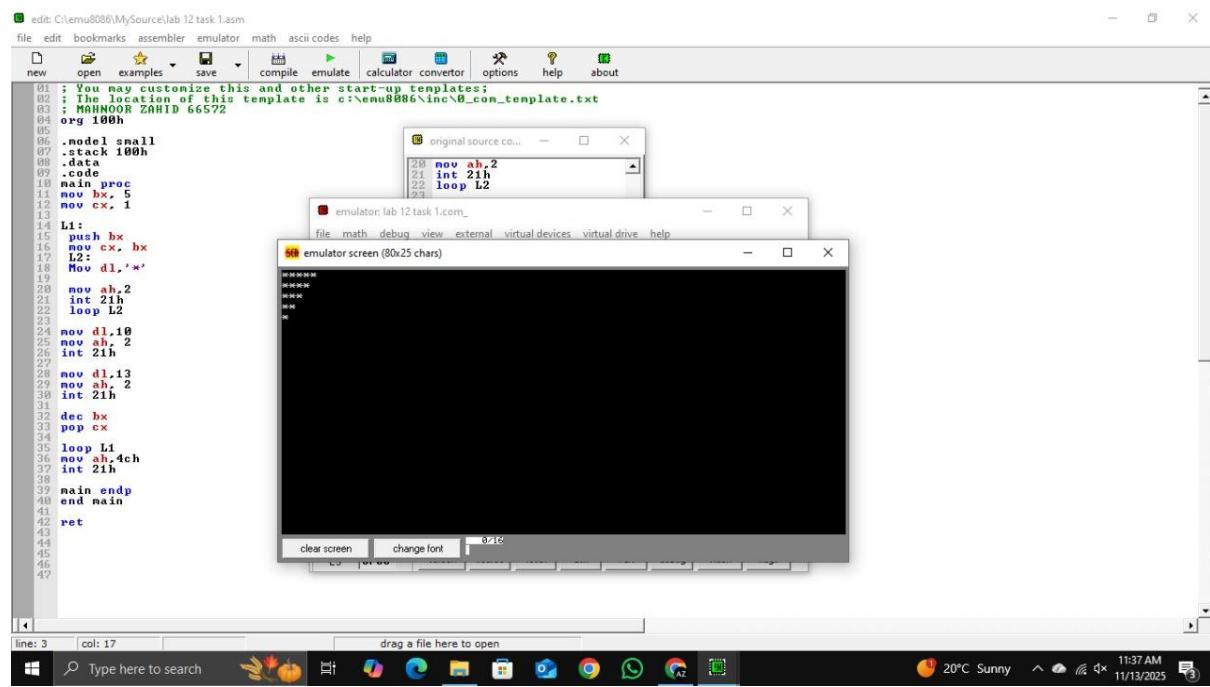**Submitted by:**

Mahnoor Zahid

66572

BSCS-3

Task 1


```asm
01 ; You may customize this and other start-up templates;
02 ; The location of this template is c:\emu8086\inc\0_con_template.txt
03 ; MAHNOOR ZAHID 66572
04 org 100h
05
06 .model small
07 .stack 100h
08 .data
09 .code
10 main proc
11 mov bx, 5
12 mov cx, 1
13
14 L1:
15  push bx
16  mov cx, bx
17  L2:
18  Mov dl,'*'
19
20  mov ah,2
21  int 21h
22  loop L2
23
24 mov dl,10
25 mov ah, 2
26 int 21h
27
28 mov dl,13
29 mov ah, 2
30 int 21h
31
32 dec bx
33 pop cx
34
35 loop L1
36 mov ah,4ch
37 int 21h
38
39 main endp
40 end main
41
42 ret
```

Task 2


```asm
01 ; You may customize this and other start-up templates;
02 ; The location of this template is c:\emu8086\inc\0_con_template.txt
03 ; MAHNOOR ZAHID
04 ; 66572
05 org 100h
06
07 .model small
08 .stack 100h
09 .data
10 .code
11 main proc
12 mov bx, 5
13 mov cx, 5
14
15 L1:
16  push cx
17  mov cx, bx
18  L2:
19  Mov dl,49
20
21  mov ah,2
22  int 21h
23  loop L2
24
25 mov dl,10
26 mov ah, 2
27 int 21h
28
29 mov dl,13
30 mov ah, 2
31 int 21h
32
33 pop cx
34
35 loop L1
36 mov ah,4ch
37 int 21h
38
39 main endp
40 end main
41
42 ret
```