OCTOBER 3, 2022

COMPUTER ORGANIZATION & ASSEMBLY LANGUAGE LAB

LAB 02 PRACTICE TASK

BCS203193

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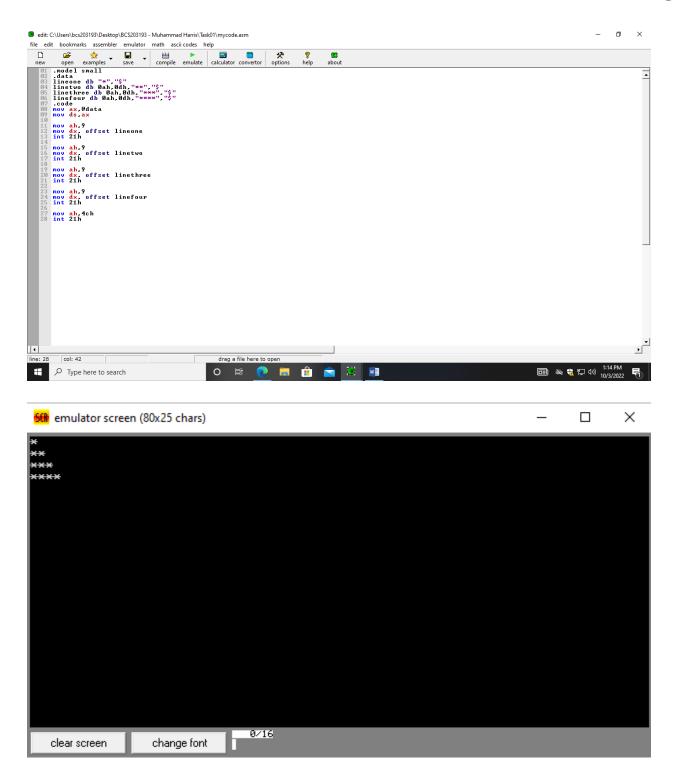


Practice Task

Task 01

Print the following output on the command window using 0Dh, 0Ah Operator:

```
**
***
***
Code:
.model small
.data
lineone db "*","$"
linetwo db 0ah,0dh,"**","$"
linethree db 0ah,0dh,"***","$"
linefour db 0ah,0dh,"****","$"
.code
mov ax,@data
mov ds,ax
mov ah,9
mov dx, offset lineone
int 21h
mov ah,9
mov dx, offset linetwo
int 21h
mov ah,9
mov dx, offset linethree
int 21h
mov ah,9
mov dx, offset linefour
int 21h
mov ah,4ch
int 21h
```



Task 02

Write the following message on the console using (0Ah = line feed):

This

is

my

"Name"

Code:

.model small

.data

lineone db "This","\$"

linetwo db 0ah,0dh," is","\$"

linethree db 0ah,0dh," $\,$ my","\$"

linefour db 0ah,0dh," name","\$"

.code

mov ax,@data

mov ds,ax

mov ah,9

mov dx, offset lineone

int 21h

mov ah,9

mov dx, offset linetwo

int 21h

mov ah,9

mov dx, offset linethree

int 21h

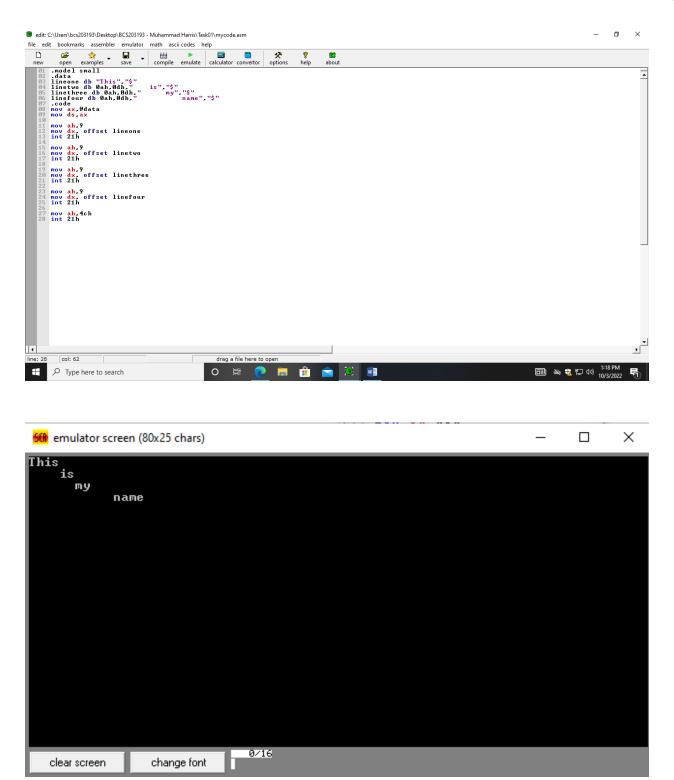
mov ah,9

mov dx, offset linefour

int 21h

mov ah,4ch

int 21h



Task 03

Print the following patterns in console using assembly language.

*	*******	*******	*
* *	*******	*******	**
* * *	******	*******	***
****	******	*******	****
****	******	******	*****
*****	*****	******	*****
*****	*****	*****	******
******	****	****	******
*******	****	****	******
*******	***	***	*******
*******	**	**	*******
*******	*	*	********

Code:

.model small

.data

.code mov ax,@data mov ds,ax

mov ah,9 mov dx, offset lineone int 21h

mov ah,9 mov dx, offset linetwo int 21h

mov ah,9 mov dx, offset linethree int 21h

mov ah,9 mov dx, offset linefour int 21h mov ah,9 mov dx, offset linefive int 21h

mov ah,9 mov dx, offset linesix int 21h

mov ah,9 mov dx, offset lineseven int 21h

mov ah,9 mov dx, offset lineeight int 21h

mov ah,9 mov dx, offset linenine int 21h

mov ah,9 mov dx, offset lineten int 21h

mov ah,9 mov dx, offset lineeleven int 21h

mov ah,9 mov dx, offset linetwelve int 21h

mov ah,4ch int 21h mov ah,4ch int 21h

