1. Write an assembly language program to perform multiplication of 8-bit data.

org 100h

mov al, 15h mov bl, 07h mul bl

mov bl, al mov ah, al

and ah, 0F0h shr ah, 4 add ah, 30h

cmp ah, 39h jle print_first add ah, 7

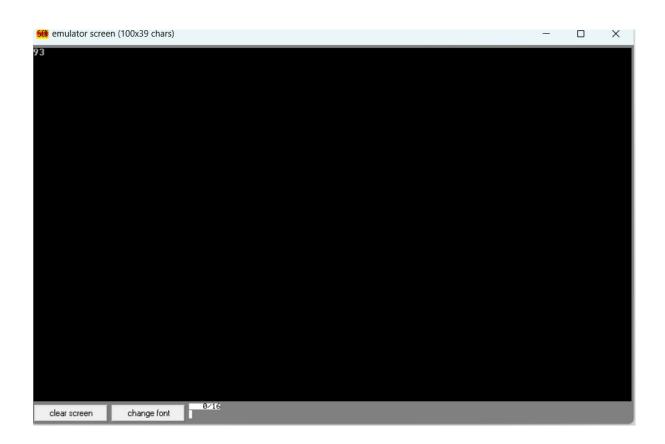
print_first: mov dl, ah mov ah, 02h int 21h

mov ah, bl and ah, 0Fh add ah, 30h

cmp ah, 39h jle print_sec add ah, 7

print_sec: mov dl, ah mov ah, 02h int 21h

mov ah, 4Ch int 21h



2. Write a program in assembly language to perform multiplication of 16-bit data.

org 100h

mov al, 12h mov bl, 07h mul bl

mov bl, al

mov ah, al and ah, 0F0h shr ah, 4 add ah, 30h

cmp ah, 39h jle print_first_digit add ah, 7

print_first_digit: mov dl, ah mov ah, 02h int 21h

mov ah, bl and ah, 0Fh add ah, 30h

cmp ah, 39h

jle print_sec_digit add ah, 7

print_sec_digit: mov dl, ah mov ah, 02h int 21h

mov ah, 4Ch int 21h

