**Name:Attay Rasool**

**Section:A**

**Roll no:p180046**

**Code:**

[org 0x0100]

mov ax, 0xb800 ; video memory base

mov es, ax ; cannot move to es through IMM

mov di, 0 ; top left location

balck:

mov word [es:di], 0x0000 ;; 00 for balck

add di, 2

cmp di, 1920

jne balck

magenta:

mov word [es:di], 0x5000

add di,2

cmp di,4000

jne magenta

jmp start

message : db 'p180046'

length: dw 7

star : db '\*'

printstr:

push bp

mov bp, sp

push es

push ax

push cx

push si

push di

mov ax, 0xb800 ; video memory base

mov es, ax

mov di, 1994

mov si, [bp + 6]

mov cx, [bp + 4]

mov ah, 0x07 ; only need to do this once ; for color, 07 is code of Dark gray

nextchar:

mov al, [si]

mov [es:di], ax

add di, 2

add si, 1

; dec cx

; jnz nextchar

; alternatively

loop nextchar

pop di

pop si

pop cx

pop ax

pop es

pop bp

ret 4

start:

mov ax, message

push ax

push word [length]

call printstr

; wait for keypress

mov ah, 0x1 ; input char is 0x1 in ah

int 0x21

mov ax, 0x4c00

int 0x21

**Screenshot:**

