# WAQAR AHMED

# 20P-0750

[org 0x0100]

jmp start

message: db 'p20-0750'

star: db '\*'

length: dw 8

clearscreen:

push es

push ax

push di

mov ax, 0xb800

mov es, ax

mov di, 0

nextloc:

mov word [es:di], 0x0720

add di, 2

cmp di, 4000

jne nextloc

pop di

pop ax

pop es

ret

setLowerHalf:

mov ah ,06h

xor al , al

mov ch , 11

mov cl , 0

mov dh , 24

mov dl , 79

mov bh , 50h

int 10h

ret

setCursor:

mov dh , 2

mov dl , 0

mov bh , 0

mov ah , 02h

int 10h

ret

printstar1:

mov bx , 1

mov cx, 5

outer2:

push cx

mov cx , bx

s1:

mov dl,'\*'

mov ah,02

int 21h

loop s1

mov dl,0Ah

mov ah,02

int 21h

mov dl,0Dh

mov ah,02

int 21h

inc bl

pop cx

loop outer2

mov cx,4

outer1:

push cx

s:

mov dl,'\*'

mov ah,02

int 21h

loop s

mov dl,0Ah

mov ah,02

int 21h

mov dl,0Dh

mov ah,02

int 21h

pop cx

loop outer1

ret

printstring:

push bp

mov bp, sp

push es

push ax

push cx

push si

push di

mov ax, 0xb800

mov es, ax

mov di, 1830

mov si, [bp + 6]

mov cx, [bp + 4]

mov ah, 0x07

nextchar:

mov al, [si]

mov [es:di], ax

add di, 2

add si, 1

loop nextchar

pop di

pop si

pop cx

pop ax

pop es

pop bp

ret 4

start:

call clearscreen

call setLowerHalf

call setCursor

mov ax, message

push ax

push word [length]

call printstring

call printstar1

mov ax, 0x4c00

int 0x21

# as