**WAQAR AHMED**

**20P-0750**

**Lab-Report 10**

**PRINTING “PAKISTAN” AT THE CENTRE OF DOSBOX:**

[org 0x0100]

jmp start

message: db 'PAKISTAN'

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

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

mov ax, message

push ax

push word [length]

call printstring

mov ah, 0x1

int 0x21

mov ax, 0x4c00

int 0x21

