A picture containing text

Description automatically generated

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**Qno.1**

A program that would indicate if either W, A, S, D are pressed from keyboard or not. you can design the flow of this program in any way. The main objective is to identify whether the pressed keys from the keyboard are from the set of (W,A,S,D) or not .

**Answer**

[org 0x0100]

jmp start

msg1: db 'Press Key:'

msg2: db 'Pressed Key Other than W,A,S,D'

clrscr:

push es

push ax

push cx

push di

mov ax, 0xb800

mov es, ax

xor di, di

mov ax, 0x0720

mov cx, 2000

cld

rep stosw

pop di

pop cx

pop ax

pop es

ret

start:

call clrscr

printmsg1:

mov ah,0x13

mov al,1

mov bh,0

mov bl,7

mov dx,0

mov cx,10

push cs

pop es

mov bp,msg1

int 0x10

interrupt:

mov ah,00h

int 0x16

cmp al,0x57

je printW

cmp al,0x41

je printA

cmp al,0x53

je printS

cmp al,0x44

je printD

printmsg2:

mov ah,0x13

mov al,1

mov bh,0

mov bl,7

mov dx,0x0200

mov cx,30

push cs

pop es

mov bp,msg2

int 0x10

jmp terminate

printW:

mov dl,0x57

mov ah,2

int 21h

jmp terminate

printA:

mov dl,0x41

mov ah,2

int 21h

jmp terminate

printS:

mov dl,0x53

mov ah,2

int 21h

jmp terminate

printD:

mov dl,0x44

mov ah,2

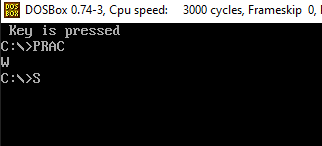
int 21h

jmp terminate

terminate:

mov ax,0x4c00

int 21h

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**The End**