QUIZ 2

21L-7512

Abdullah Dar

BSCS 3G

CODE

;21L-7512 Quiz 2

[org 0x0100]

jmp start

; Global variables

tickcount: dw 0

location: dw 0,0,0,0

timer:

push ax

inc word [cs:tickcount]

push word[cs:tickcount]

call movearrow

mov al, 0x20

out 0x20, al

pop ax

iret

top:

mov word[location+4],0x0f5e

add di,2

jmp exit

corner:

mov word[location+4],0x0f3e

sub di,2

jmp exit

down:

mov word[location+4],0x0f76

mov di, [location]

cmp di,3998

je corner

cmp di,3840

ja return1

add di,160

jmp exit

bottom:

mov word[location+4],0x0f3c

sub di,2

jmp exit

up:

mov di,[location]

cmp di,0

jna return1

sub di,160

jmp exit

movearrow:

push bp

mov bp, sp

pusha

mov ax, 0xb800

mov es, ax

mov di,[location]

mov ax,[location+2]

mov [es:di],ax

cmp di,158

jc top

cmp di,3840

ja bottom

shr di,1

shr di,1

jc down

jnc up

return1:

exit:

mov ax,[es:di]

mov [location+2],ax ; save screen

mov ax,[location+4] ; char

mov word[es:di],ax ; print

mov [location], di ; location index

popa

pop bp

ret 2

start:

xor ax,ax

mov es,ax

cli

mov word[es:8\*4],timer

mov [es:8\*4+2],cs

sti

mov dx, start

add dx, 15

mov cl, 4

shr dx, cl

mov ax, 0x3100 ; stay resident

int 0x21

AFD SCREENSHOTS







