Code:

[org 0x0100]

jmp start

xPos : dw 1, 10, 15, 29, 46, 8, 5

yPos : dw 5, 14, 32, 24, 41, 65, 9

count : dd 0

posSnake : dw 0

clrScreen :

push di

push ax

push es

mov ax, 0xb802

mov es, ax

mov di, 0

clrNext:

mov word[es:di], 0x0a20

add di, 2

cmp di, 4000

jne clrNext

pop es

pop ax

pop di

ret

FoodPrintFunc :

call clrScreen

push ax

push cx

push bx

push si

push es

push dx

mov cx, 0

mov ax, 0xb800

mov es : ax

mov si, 0

FoodLocPrint :

call clrScreen

mov ax, 80

mov bx, word[xPos + si]

mul bx

mov bx, word[yPos + si]

add ax, bx

mov di, ax

mov word[es:di], 0x0d2a

mov dx, 0

cmp word[posSnake], 2

jge PrintSnake

resetVal :

dec word[posSnake]

dec word[posSnake]

dec word[posSnake]

dec word[posSnake]

dec word[posSnake]

dec word[posSnake]

mov di, word[posSnake]

mov word[es:di], 0x0a20

add word[posSnake], 1

PrintSnake:

mov di, word[posSnake]

mov word[es:di], 0x0c2a

add word[posSnake], 1

add dx, 1

cmp dx, 6

jne PrintSnake

mov dword[count], 600000

delay:

dec dword[count]

cmp dword[count], 0

jne delay

add si, 2

add cx, 2

cmp cx, 14

jne FoodLocPrint

pop dx

pop es

pop si

pop bx

pop cx

pop ax

ret

start :

call FoodPrintFunc

mov ax, 0x4c00

int 0x21

Graphical user interface, text, application

Description automatically generated