1.

org 100h

.data

adw 2h

.code

movax,@data

movds,ax

movax,a

rolax,4

end

2.

org 100h

.data

Var1 db 20h

Count db 00h

.code

Mov ax,@data

Mov ds,ax

Mov cx,0008h

E:inc count

L1:rcl var1,1

Jc e

Loop l1

end

3.

org 100h

.data

adw -12

.code

movax,@data

movds,ax

mov cl,0

mov bl,0

movax,a

add ax,0

jns l1

incbl

jmpendd

l1: inc cl

endd:

end

4.

org 100h

.data

var1dw 2

var2dw 6

.code

movax,@data

movds,ax

mov bx,var1

mov ax,var2

divbx

cmp ah,0

jz l1

mov dh,1

jmp l2

l1:mov dh,0

l2:

end

5)

org 100h

.data

var1 dw 9h

var2 dw 5h

.code

;mov ax,@data

;mov ds,ax

;mov cx,var1

;add cx,var2

;mov bx,var1

;sub bx,var2

;mov ax,var2

;mul var1

mov ax,var1

mov bx,var2

div bx

;mov ax,var1

6)

org 100h

.data

arr1 dw 6,0,-3,4,-21

.code

mov ax,@data

mov ds,ax

mov bx,0

mov dx,0

lea si,arr1

mov cx,5

l5:add cx,0

jz l4

mov ax,[si]

inc si

dec cx

add ax,0

jz l2

js l1

inc dx

loop l5

l2:inc bx

l1:inc bx

jmp l5

l4:

end

7)

org 100h

.data

a dw 10

.code

mov ax,@data

mov ds,ax

mov ax,1

l1:mov bx,a

mul bx

dec a

cmp a,1

jnz l1

end

8)

org 100h

.data

arr1 db 6,21,3,4,5

.code

mov ax,@data

mov ds,ax

lea si,arr1

mov cl,5

mov ch,00

mov al,[si]

inc si

dec cl

l1:cmp al,[si]

jc l2

mov al,[si]

l2:inc si

loop l1

end

9)

org 100h

.data

a dw 6h

.code

mov ax,@data

mov ds,ax

mov bx,2h

mov ax,a

mov dx,1

cmp ax,2

jz l2

l1:mov dx,0

div bx

cmp dx,0

jz l3

mov ax,a

inc bx

cmp ax,bx

jnz l1

l2:mov cx,1

l3:mov cx,dx

end

10)

.model small

.stack 100h

.data

arr1 db 1h,2h,3h,4h

sum db 0

.code

mov ax,@data

mov ds,ax

mov ch,4h

mov ah,0

lea SI,arr1

l1:add ah,[SI]

inc SI

dec ch

cmp ch,0

jnz l1

end

11)

.stack 100h

.data

arr1 db "psgh"

sum db 0

.code

mov ax,@data

mov ds,ax

mov ch,4h

mov ah,0

lea SI,arr1

l1:add ah,[SI]

inc SI

dec ch

cmp ch,0

jnz l1

end

12)

org 100h

.data

arr1 db 6,3,4,3,3

key db 3

.code

mov ax,@data

mov ds,ax

mov bx,5

lea si,arr1

l1:cmp bx,0

jz l3

mov ah,[si]

inc si

dec bx

cmp ah,key

jz l2

loop l1

l2:inc dx

jmp l1

l3:

end

13)

org 100h

.data

arr1 dw 6,0,-3,4,-21

.code

mov ax,@data

mov ds,ax

mov bx,0

mov dx,0

lea si,arr1

mov cx,5

l5:cmp cx,0

jz l4

mov ax,[si]

inc si

dec cx

cmp ax,0

jz l2

js l1

inc dx

loop l5

l2:inc bx

l1:inc dx

jmp l5

l4:

end