# **Task 2:**

INCLUDE Irvine32.inc

.data

a EQU 0

b EQU 0

c1 byte 0

.code

main PROC

mov bx,a+b

mov al,a

cmp al,bl

jg nd

next:

mov al, b

mov bl, a

cmp al, c1

check:

add bl, al

jmp agay

je check

cmp al, bl

jg check

agay:

mov dl,c1

dec dl

mov c1 , dl

mov al,c1

cmp al,0

jle endf

jmp next

endf:

mov al, a

cmp al, 0

jne nd

mov bl, b

cmp bl, 0

jne nd

mov dl,c1

inc dl

mov c1,dl

nd:

exit

main ENDP

END main

# **Task 3:**

1. The value of ax will be 23.
2. The purpose of the line ”**xor ax,ax**” is to clear a register, similar to “**mov ax,0**”.
3. label1:

jc next

add ax, word ptr[esi]

jmp nextt

next :

add ax,word ptr[esi]

add ax,1

nextt:

add esi,type array

loop label1