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Lab2 – Exrc. 2

**Program listing**

dseg segment

N db 5

I db 0

ARR1 db 0**,**0**,**0**,**0**,**0

ARR2 db 0**,**0**,**0**,**0**,**0

dseg ends

sseg segment stack

dw 100h dup**(?)**

sseg ends

cseg segment

assume **ds:**dseg**,cs:**cseg**,ss:**sseg

start**:** **mov** **ax,**dseg

**mov** **ds,ax**

;INITIALISATION

**mov** **bx,** 0 ;CLEAR REGISTER bx FOR CALCULATIONS

**mov** **cx,** 0 ;CLEAR REGISTER cx FOR CALCULATIONS

;PREPARING VARIABLES

**mov** **bl,** I**[**0**]** ;MOVE INDEX COUNTER VALUE TO bl

**mov** **cl,** N**[**0**]** ;MOVE VALUE HOLDER VALUE TO cl

;FILL LOOP

L1**:** **mov** ARR1**[bx],** **cl** ;FILL THE ARR1 WITH NUMERICAL VALUES

;ASCII CONVERTION

**mov** **al,** **cl** ;CONVERT NUMBER TO IT'S ASCII

**add** **al,** 30h;CONVERT NUMBER TO IT'S ASCII

;FILL ARR2

**mov** ARR2**[bx],** **al** ;FILL THE ARR2 WITH ASCII VALUES

**inc** **bx** ;INCREASE THE INDEX VALUE

**dec** **cl** ;DECREASE COUNTER VALUE

**jnz** L1 ;IF NOT ZERO JUMP TO L1 LABEL

**mov** **ah,**4ch

**int** 21h

cseg ends

end start

**Memory dump**

