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Subject: MicroProcessor Lab

KSA-03

Title: Implementation of loop using assembly language.

1. Enter Put the three Number and and Store the number n1,n2,n3 and using for loop and finally we check this number should be even or odd?

Answer:

.MODEL SMALL

.STACK 100H .DATA

MSG1 DB 'Enter first number: \$'
MSG2 DB 'Enter second number: \$'
MSG3 DB 'Enter third number: \$'

EVEN_MSG DB ' is even\$' ODD_MSG DB ' is odd\$'

N1 DW ? N2 DW ? N3 DW ?

NUMBERS DW?

.CODE

MAIN PROC

MOV AX, @DATA MOV DS, AX MOV DX, OFFSET MSG1 MOV AH, 09H INT 21H MOV AH, 01H INT 21H SUB AL, 30H MOV AH, 0 MOV N1, AX

MOV DX, OFFSET MSG2 MOV AH, 09H INT 21H MOV AH, 01H INT 21H SUB AL, 30H MOV AH, 0 MOV N2, AX

MOV DX, OFFSET MSG3 MOV AH, 09H INT 21H MOV AH, 01H INT 21H SUB AL, 30H MOV AH, 0 MOV N3, AX

MOV CX, 3 LEA SI, N1 LOOP_CHECK: MOV AX, [SI] TEST AX, 1 JZ EVEN

> MOV DX, OFFSET ODD_MSG MOV AH, 09H INT 21H JMP CONTINUE

EVEN:

MOV DX, OFFSET EVEN_MSG MOV AH, 09H INT 21H CONTINUE: ADD SI, 2 r LOOP LOOP_CHECK

MOV AH, 4CH INT 21H

MAIN ENDP END MAIN