Exercise

1. Berapa kalikah setiap arahan LOOP berikut akan dilaksanakan?

*How many times does the following LOOP instruction will be executed*?

1. MOV AX, 0

MOV CX, 6

L1: INC AX

LOOP L1

Ans: 5

1. MOV AX, 0

MOV CX, 6

L2: INC AX

SUB CX, 2

LOOP L2

Ans: 2

1. MOV AX, 0

MOV CX, 3

SHL CX, 2

L3: INC AX

LOOP L3

Ans: 11

1. MOV AX, 0

L4: MOV CX, 4

INC AX

LOOP L4

Ans: infinity

1. Apakah nilai dalam pendaftar AX selepas jujukan arahan berikut dilaksanakan?

*What is the value in the AX register after the following sequence of instructions are executed*?

1. MOV AL, 05H

MOV AH, 08H

MOV BL, 02H

MUL BL

Ans: 0A00H

1. MOVZX AX, 0FH

MOVSX BX, 03H

DIV BL

Ans:0500H

1. MOV AL, 04H

MOV AH, 08H

ADD AH, AL

Ans: 040CH

1. MOV AX, 10D

MOV BX, 19D

SUB BX, AX

MOV AX, BX

Ans: 0900H

1. Apakah nilai dalam pendaftar CX selepas jujukan arahan-arahan berikut dilaksanakan? Andaikan nilai awal dalam pendaftar CX adalah 0000H.

*What is the value in the CX register after the sequence of the following instructions are executed?* *Assume that the initial value in the CX register is 0000H.*

X DB 0100 0011B

Y DB 0010 0110B

MOV CL, Y

ADD X, CL

CMP CL, Y

JNE L5

MOV CL, X

L5: ADD X, Y

Ans: 4300H