# LAB2 MUP PRANAY SIMEJIYA 2019A3PS0267P

Explanation

1. Loaded data into memory with DATA1 as initial address.

2. Set counter of 10 in CX and loaded address of first number into SI .

3. First number loaded into EAX and second number into EBX

4. Decremented CX

5. Compared EAX and EBX and after that did JAE , so if EAX >= EBX then we can directly store next number into EBX otherwise we have to store smaller number into EAX

6. At last we stored value of EAX into DS:0200 location

SCREENSHOTS

Graphical user interface

Description automatically generated with medium confidenceGraphical user interface, text

Description automatically generated

CODE:

.MODEL tiny

.386

.DATA

DATA1 DD 45678902h, 78076788h, 9008123ah, 345678abh, 12345678h, 54337641h, 0a2b1c3d4h, 28346532h, 12345677h, 718293a4h

.CODE

.STARTUP

LEA SI, DATA1

MOV CX, 0ah

ADD SI, 4h

MOV EBX, [SI]

MOV EAX, [DATA1]

DEC CX

MOV DI, 0200h

X2 : CMP EBX, EAX

JAE X1

MOV EAX, EBX

X1 : ADD SI, 4h

MOV EBX, [SI]

DEC CX

JNZ X2

MOV [DI], EAX

.EXIT

END