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Expermiment 7

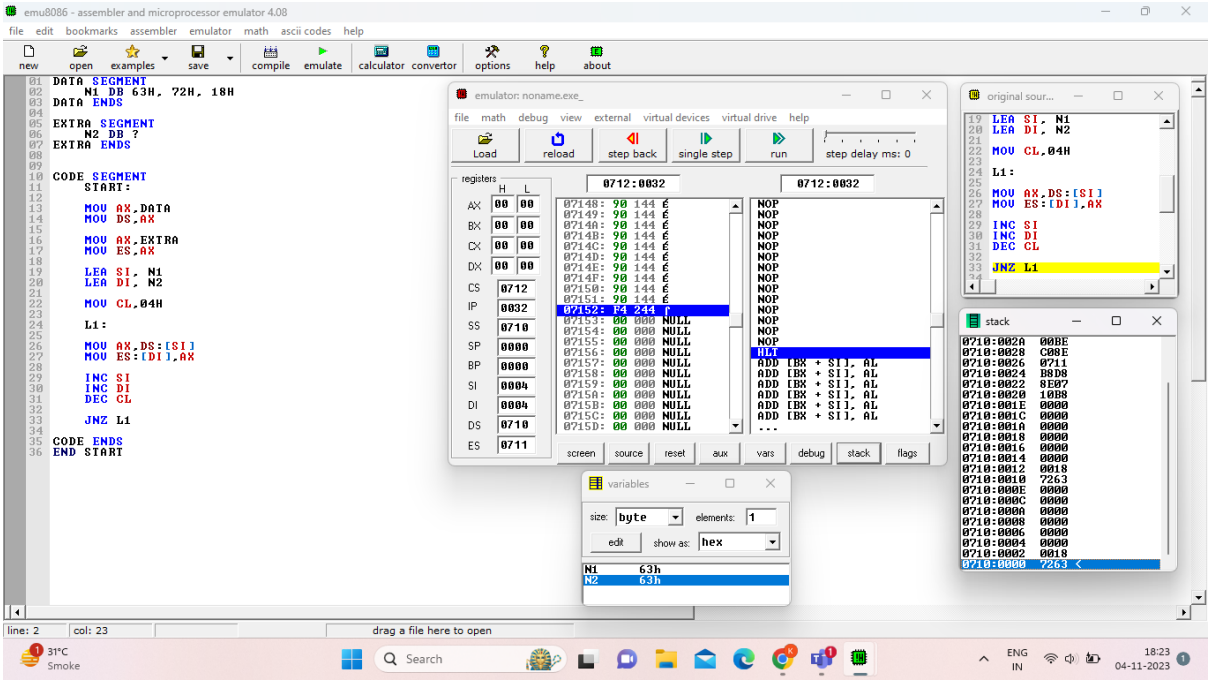
Aim : Assembly Program to transfer n block of data from one segment to another segment.

Theory : Transferring data between memory segments is a common operation in low-level programming. This experiment focuses on writing an assembly program to efficiently copy a specified number of data blocks (n blocks) from one segment to another.

Code :

```
DATA SEGMENT
   N1 DB 45H, 32H, 36H
DATA ENDS

EXTRA SEGMENT
   N2 DB ?
EXTRA ENDS

CODE SEGMENT
   START:

   MOV AX,DATA
   MOV DS,AX

   MOV AX,EXTRA
   MOV ES,AX

   LEA SI, N1
   LEA DI, N2

   MOV CL,04H

   L1:

   MOV AX,DS:[SI]
   MOV ES:[DI],AX

   INC SI
   INC DI
   DEC CL

   JNZ L1

CODE ENDS
END START
```

Screenshots :



Conclusion :In this experiment, we successfully developed an assembly program to transfer n blocks of data from one memory segment to another using the emu8086 emulator. This program is a fundamental example of memory manipulation in low-level programming.