COAL LAB:

TASK NUMBER:01

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Roll-Number:22P-9009

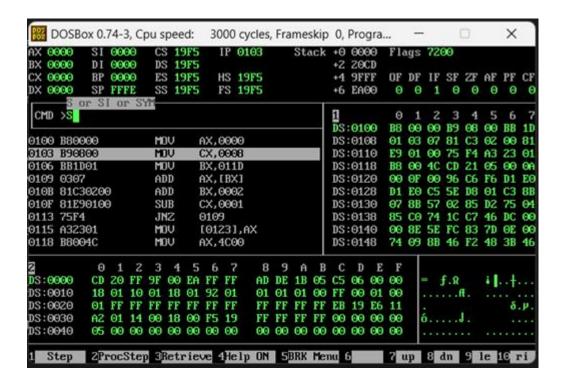
Step 1: Initialize everything.

Not a single flag

Description: Set the accumulator's (AXE) initial value to 0.

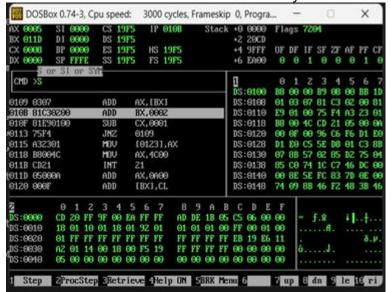
In order to loop over 5 numbers, set the loop counter (CX) to 5.

Put the first integer (num1)'s memory address into the base register (BX).



Step 2: Incorporate Current Value into Accumulator

Registers: AXE, BX Flags: Parity Flag (PF) Description: Add the value to the accumulator AXE from the memory address that BX pointed to.

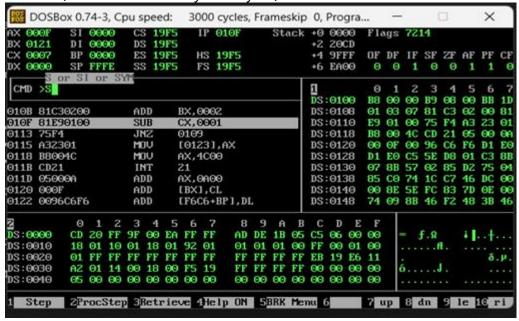


Step 3: The Parity Flag (PF) becomes one. Step Three: Proceed to the Next Number

Registers: BX

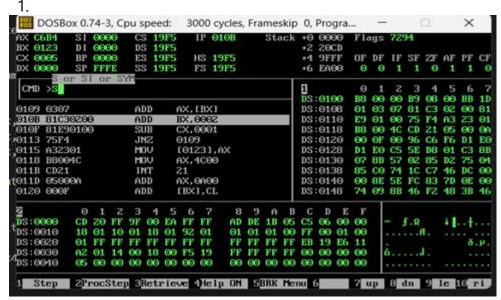
Not a single flag

To point to the next number in memory, increment BX by two bytes (dw increments by two bytes).



Step 4: Decreasing the Loop Counter Registers: CX No Flags

Description: To keep track of iterations, decrease the loop counter CX by



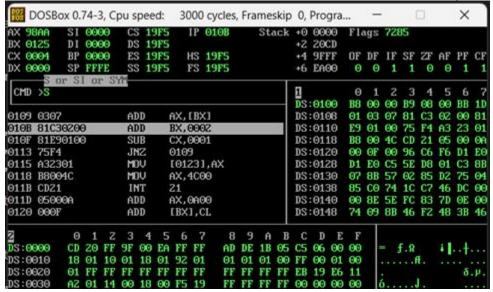
Step 5: Examine the condition of the loop

Registers: CX

Not a single flag

Inspect if loop counter CX is not equal to zero.

To resume the iteration if CX is not zero, return to the outerloop label.

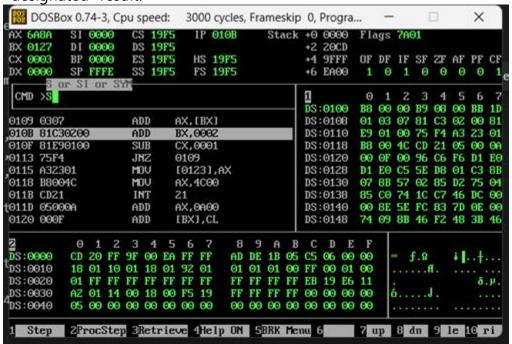


Step 6: Save the Outcome

Registers: AXE

Not a single flag

The final amount, which is kept in AXE, should be stored in the memory address designated "result."



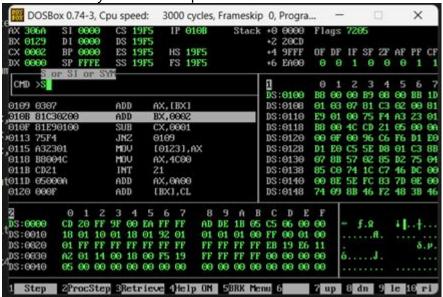
Step 7: Get Ready to End the Programme

Registers: AXE Not a single flag

Description: Assemble the required registers in order to become ready for

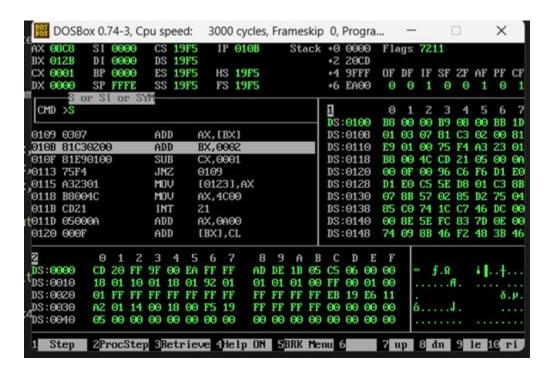
programme termination.

Run a DOS system call to put an end to the software.



Step 8:

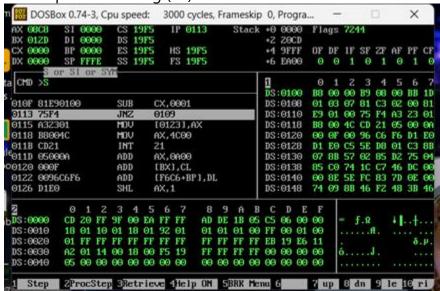
This step involves no notable alterations or occurrences.



Step 9: Setting the Zero Flag (ZF)

Registers: Not present Flags: Not present (ZF)

Description: Zero Flag (ZF) is set to 1



Step 10: Terminate Programme

Description: The programme comes to an end.

