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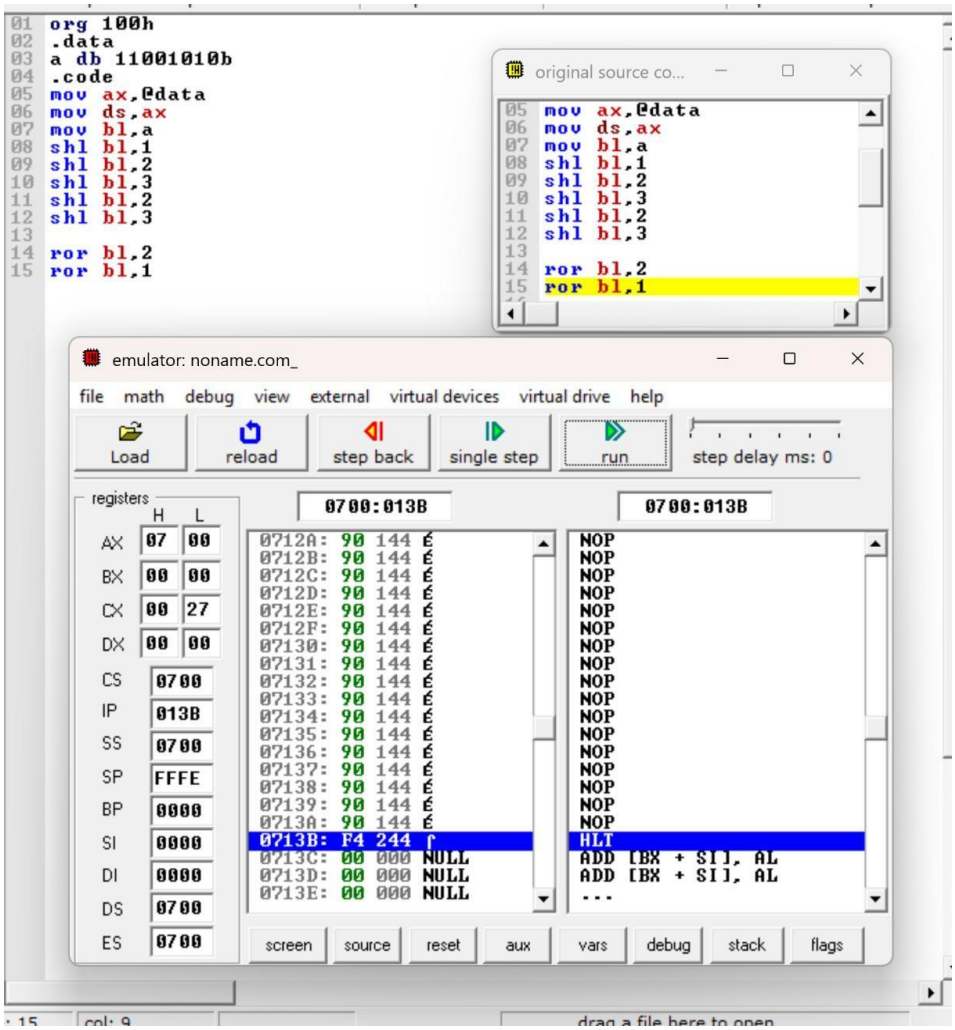
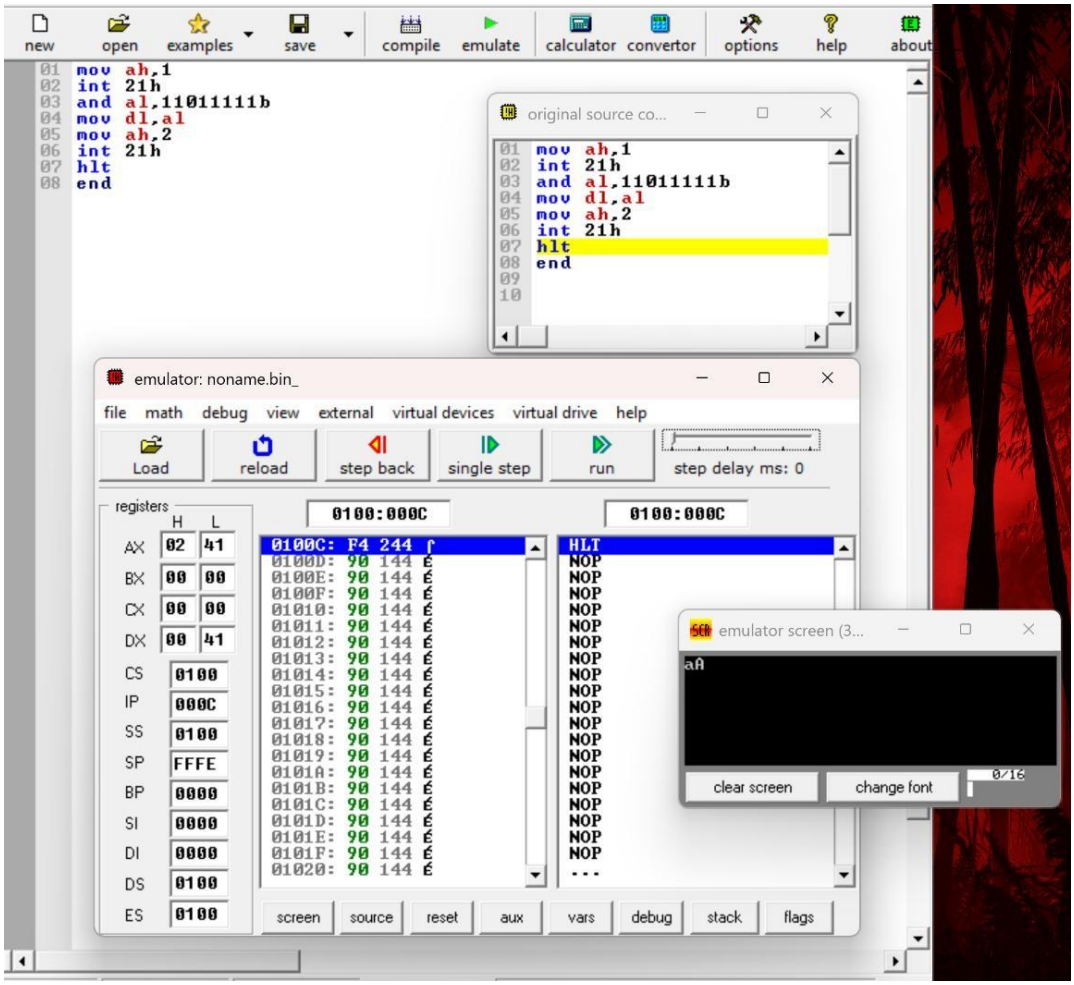
SUBJECT: COAL

LAB10-TASK1:



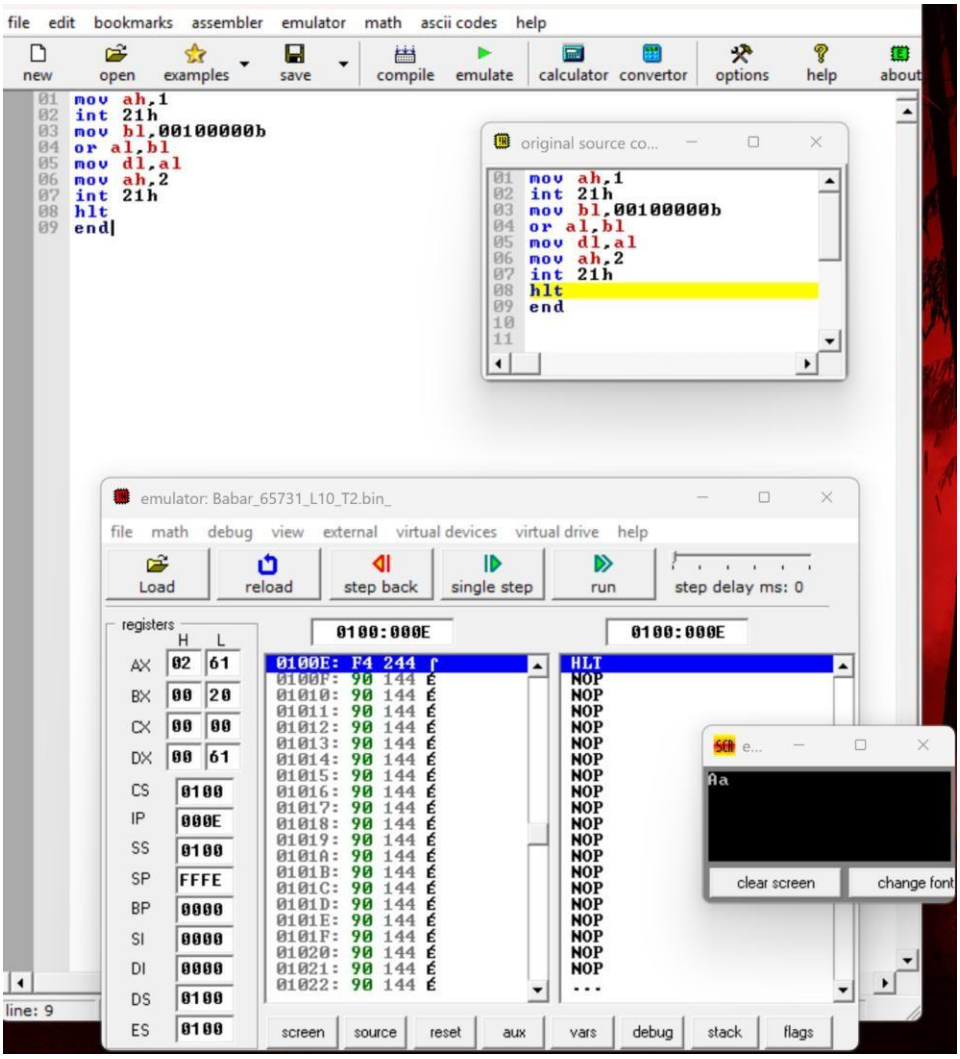
Explanation: The code moves data to registers, then performs a series of left shifts on bl by 1, 2, and 3 bits. Finally, it uses XOR to combine bl shifted by 2 with bl shifted by 1.

LAB10-TASK2:



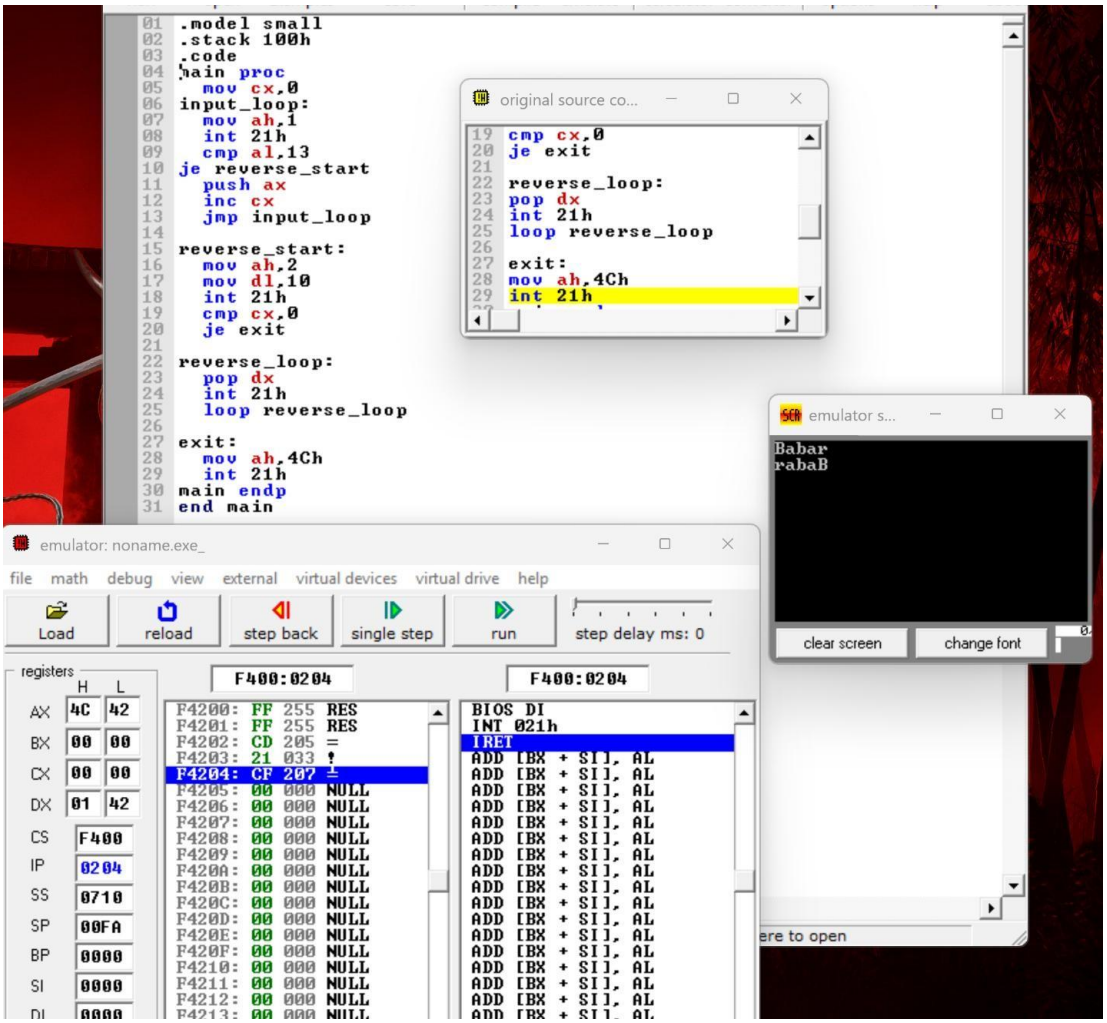
Explanation: It converts the character to uppercase by AND AL with 11011111b to clear the lowercase bit, moves it to DL, and outputs it using INT 21h with AH=2, before halting.

LAB10-TASK3:



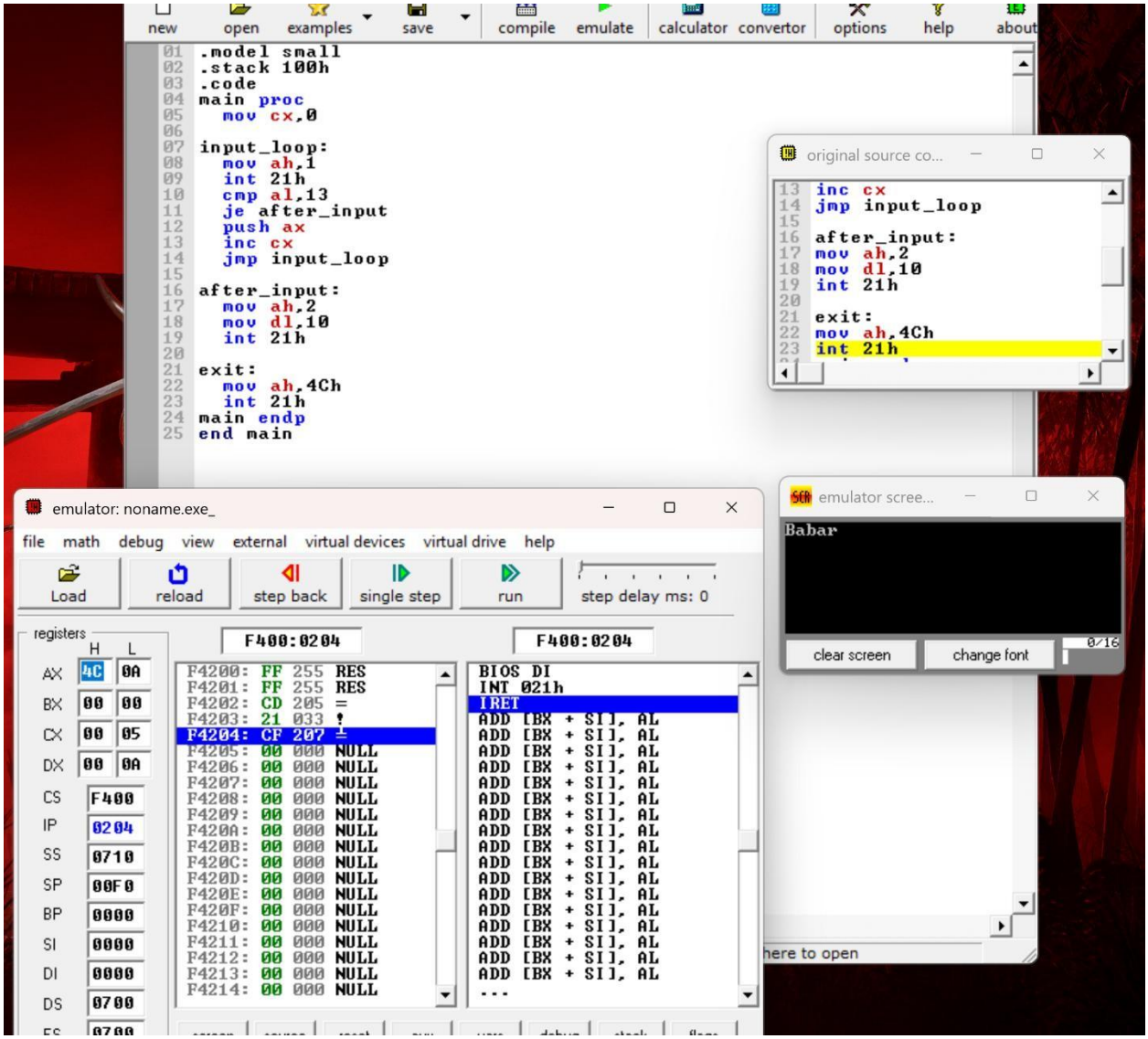
Explanation: Reads a key press, converts uppercase letters to lowercase, prints the result, then stops.

LAB10-TASK4:



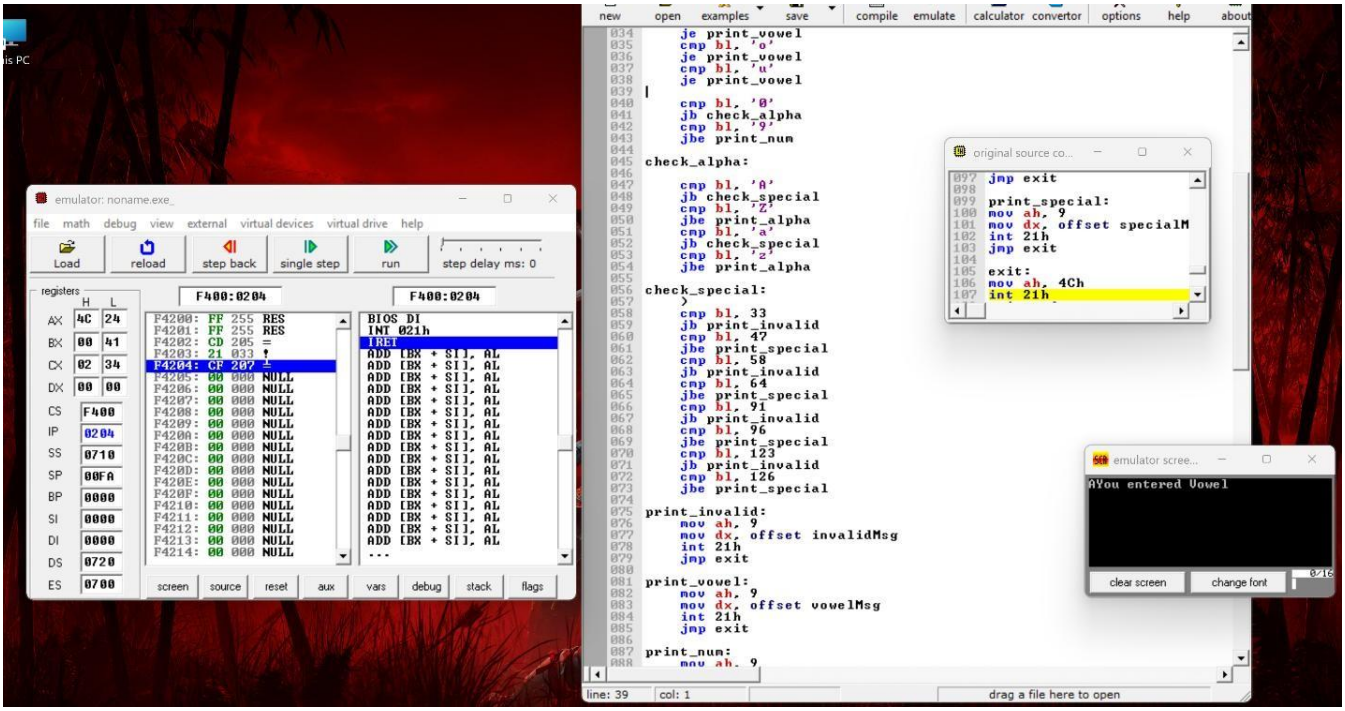
Explanation: This code reverse the name taken from User using Reverse loop.

LAB10-TASK5:



Explanation: This code Forward the characters taken from user using input loop and after input.

LAB10-TASK6:



Explanation:

The program reads a character and classifies it:

- Vowel → prints "vowel"
- Digit → prints "num"
- Letter → prints "alpha"
- Special char → prints "special"
- Else → prints "invalid" Then exits.