

**Department of Computer Science and Engineering**

**21st Batch**

**Lab Report 2**

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| Course title | : Microprocessor and Assembly Language |
| Course Code | : CSE-334 |

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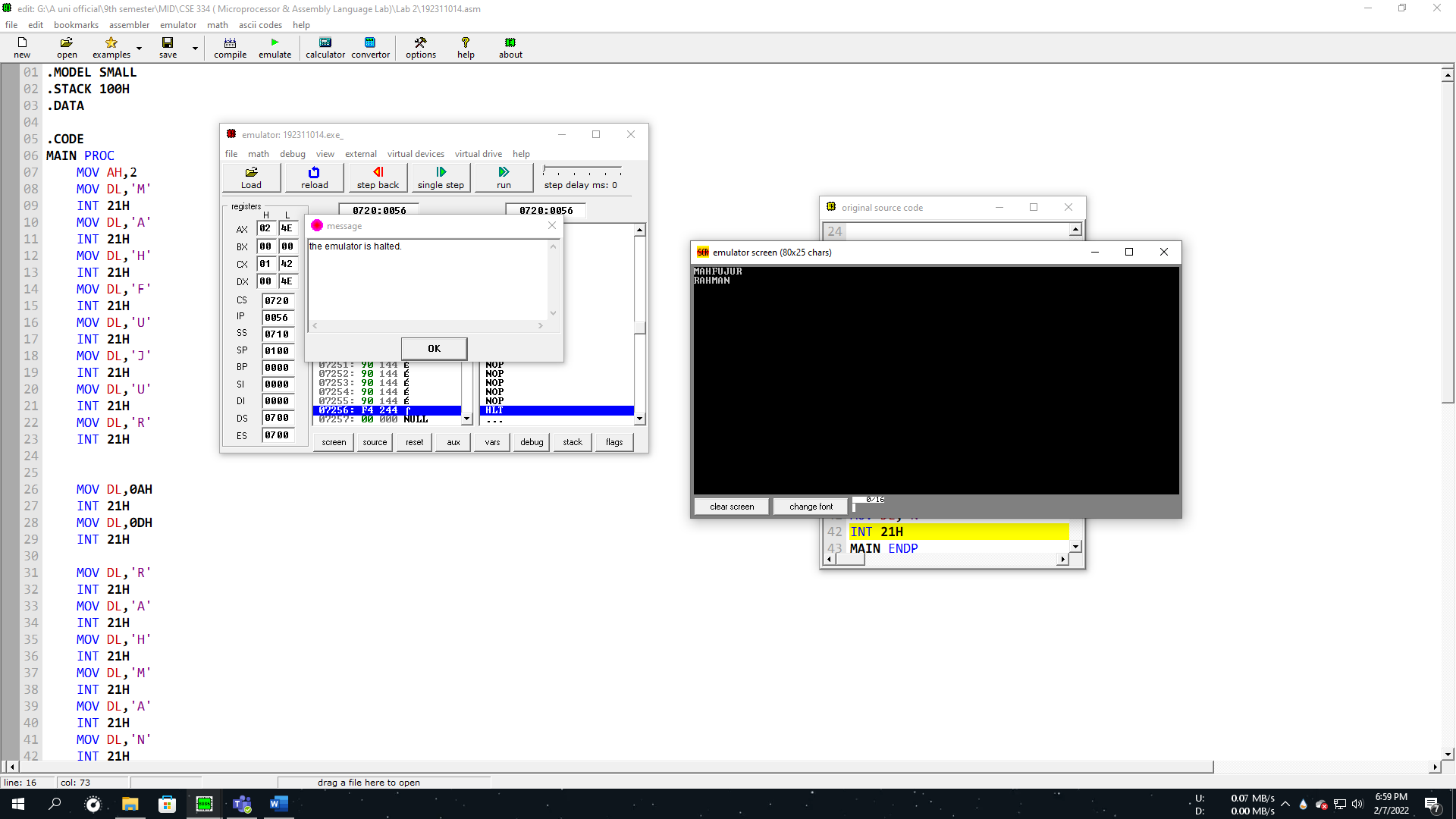
**Problem Statement:** Print the coder’s name by Assembly code using emu8086 character by character. Including First-name and Last-name be printed at different lines.

**Theory:** To Print the coder’s name by Assembly code using emu8086 character by character, we will use the default assembly format to print a single character. To do so, we will use two different registers. “**AH**” register as the mode of the code and “**DL**” to store the value, which will be printed using the “**INTERRUPT ROUTINE 21H**”. After that, we will repeat the process for printing multiple letters. We can both use the character or their ASCII value. We will move 0A to DL for the new line, then call the interrupt, and for **Carriage Return,** we will move **0D** to **DL**.

**CODE:**

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| .MODEL SMALL  .STACK 100H  .DATA  .CODE  MAIN PROC  MOV AH,2  MOV DL,'M'  INT 21H  MOV DL,'A'  INT 21H  MOV DL,'H'  INT 21H  MOV DL,'F'  INT 21H  MOV DL,'U'  INT 21H  MOV DL,'J'  INT 21H  MOV DL,'U'  INT 21H  MOV DL,'R'  INT 21H    MOV DL,0AH  INT 21H  MOV DL,0DH  INT 21H    MOV DL,'R'  INT 21H  MOV DL,'A'  INT 21H  MOV DL,'H'  INT 21H  MOV DL,'M'  INT 21H  MOV DL,'A'  INT 21H  MOV DL,'N'  INT 21H  MAIN ENDP  END MAIN |

**Result:**

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