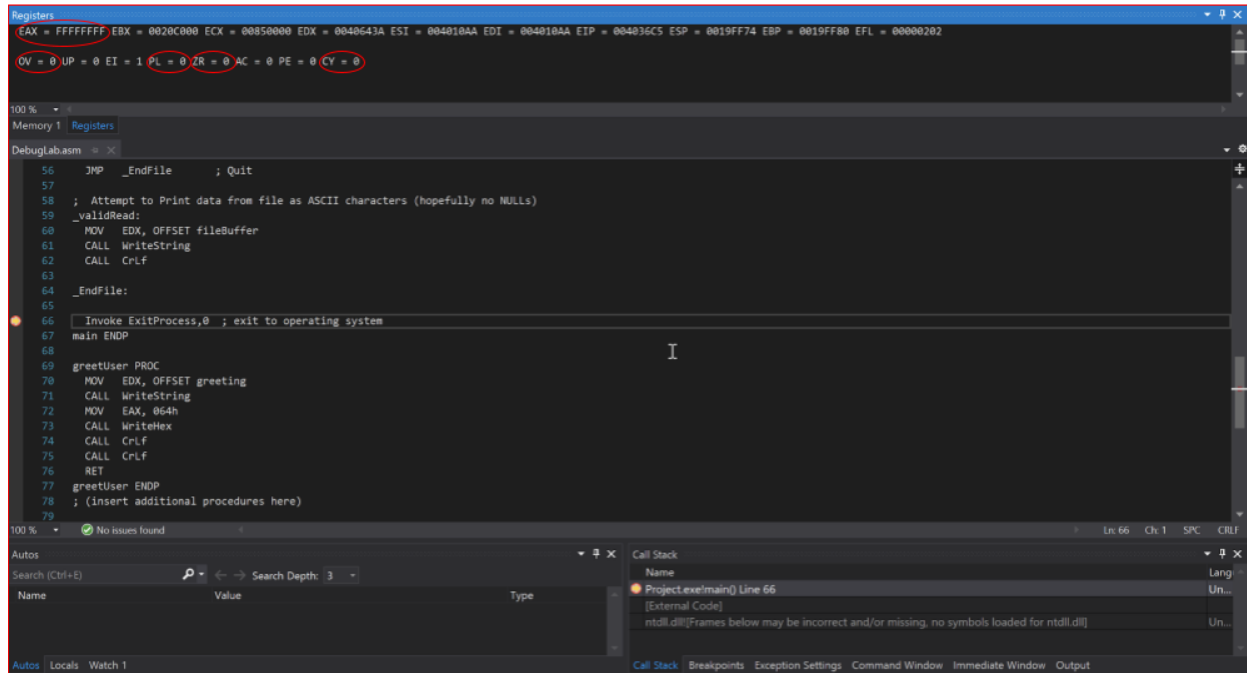


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CS 271  
Project 2  
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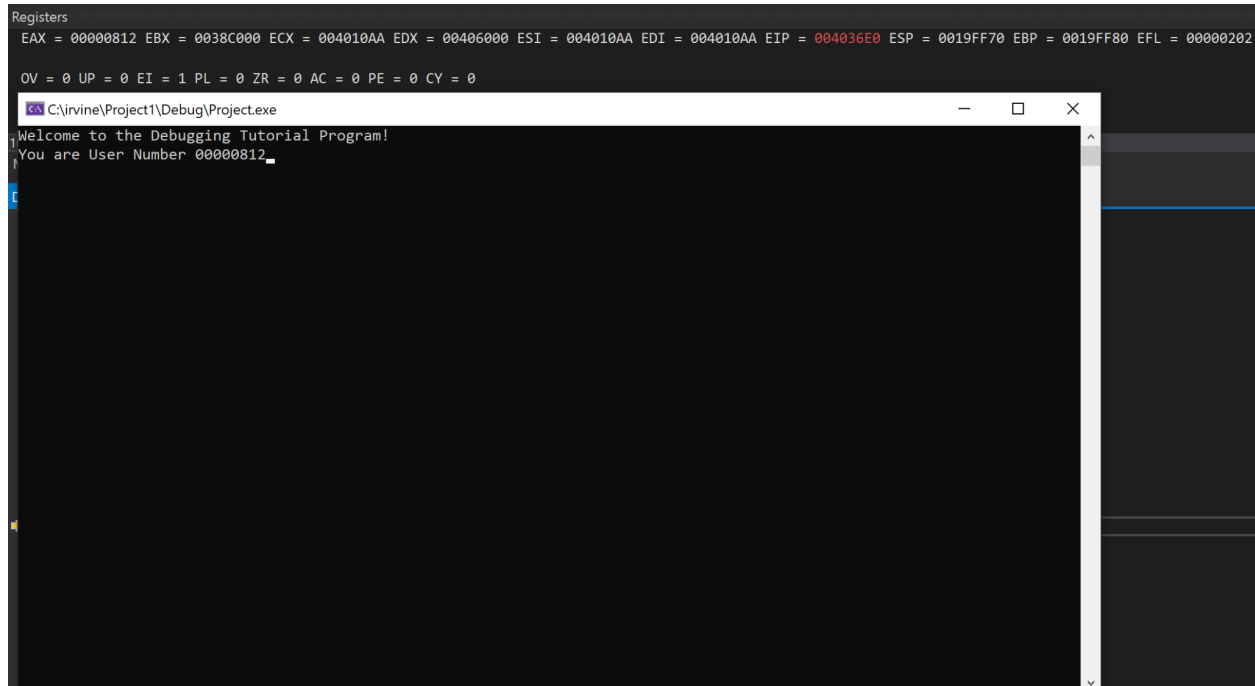
## **Part 1:**



1. What is the current value (in Hex) of the EAX Register?
  - EAX Register = FFFFFFFF
2. What is the current state (Set/Clear) of the following flags: Carry, Overflow, Zero, Sign?
  - Carry Flag (CY) = Clear
  - Overflow Flag (OV) = Clear
  - Zero Flag (ZR) = Clear
  - Sign Flag (PL) = Clear

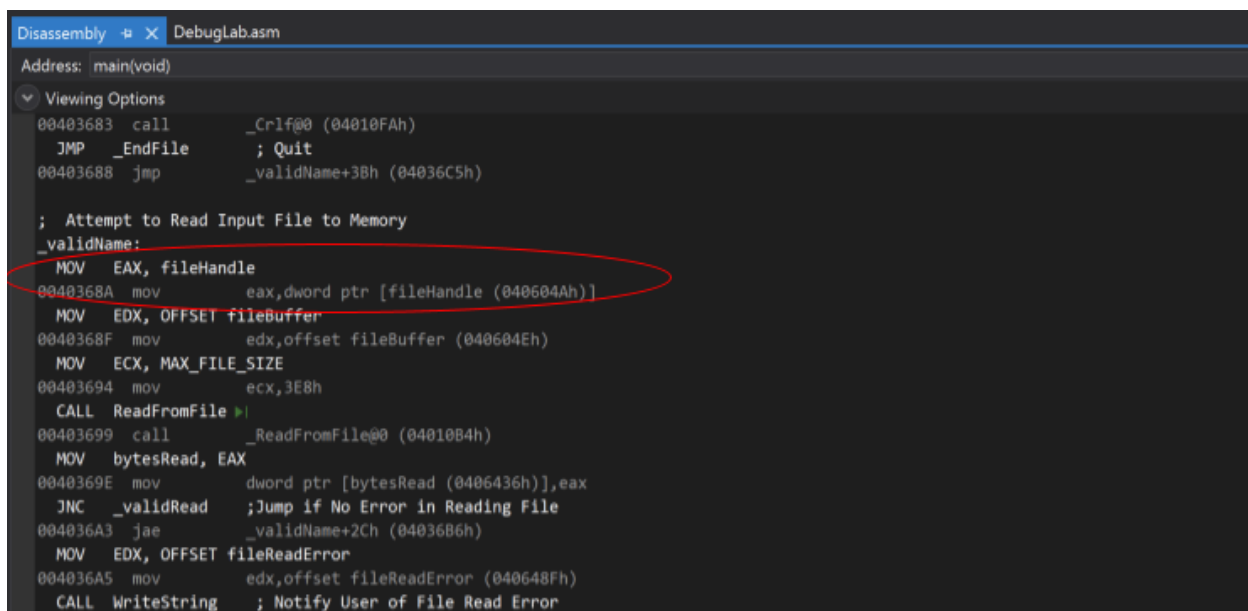
## **Part 2:**

1. (Screenshot of your User Number number in Terminal Window and Registers/Editor window in Visual Studio).



### **Part 3:**

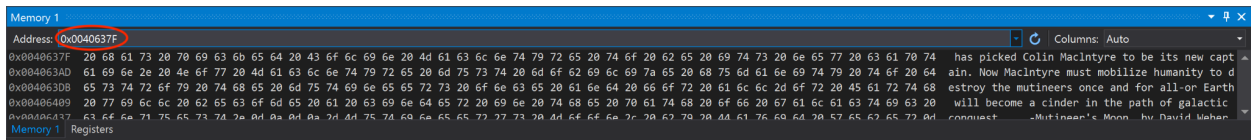
1. What is the memory address (in the code segment) of the instruction located at the `_validName` code label? Note that this question is not asking about the address of the `JNE _validName` instruction, but the actual code label (defined as `_validName:`).
- 040368Ah
2. What instruction (with operands, if any) is stored at the code segment address from Question 1 above? In addition to writing the instruction (with operands, if any), please circle this line on the screenshot attached to this part in your report, including the address from Question 1.



- `MOV EAX, fileHandle`  
`0040368A mov eax, dword ptr [fileHandle (040604AH)]`
3. What is the significance of the relationship between the value in EIP (in the Registers window) and the leftmost value on any given line?
    - The significance of the relationship between the value in EIP and the leftmost value on any given line is that EIP is the current memory address of the location we are in the program.

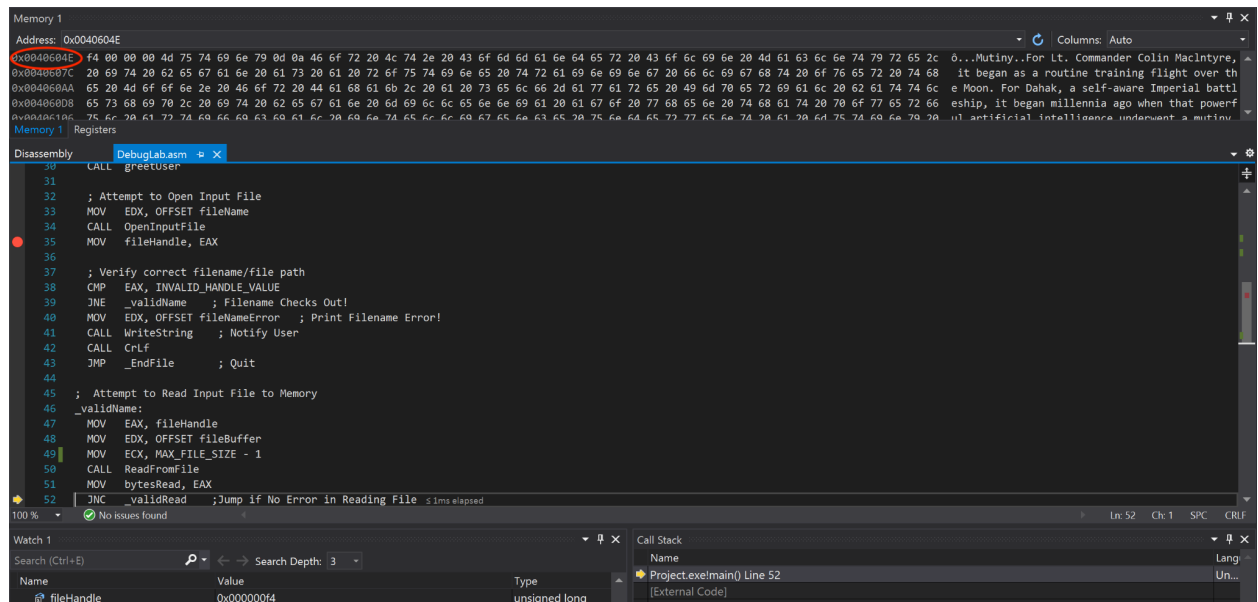
#### Part 4:

1. Let  $n =$  (the last three digits of your OSU ID number). What is the  $(n+1)$ st byte (index  $n$ ) of TestText.txt, interpreted as an ASCII character?
  - The  $(812 + 1)$  byte is interpreted as an ASCII character as a space ' '.
2. Remember to take a screenshot of the Memory window used to collect this information for inclusion in the lab report. Please circle the value in the address bar and the character in the ASCII portion of the Memory debug window.



#### Part 5:

1. What is the unsigned value of fileHandle after opening the TestText.txt file? Remember to include a screenshot that shows where you obtained this information, and please circle the value of fileHandle on this screenshot.



- The unsigned value of fileHandle after opening the TestText.txt file is 0x0040604E, which is 4218958.