# Part 1: Initial Setup

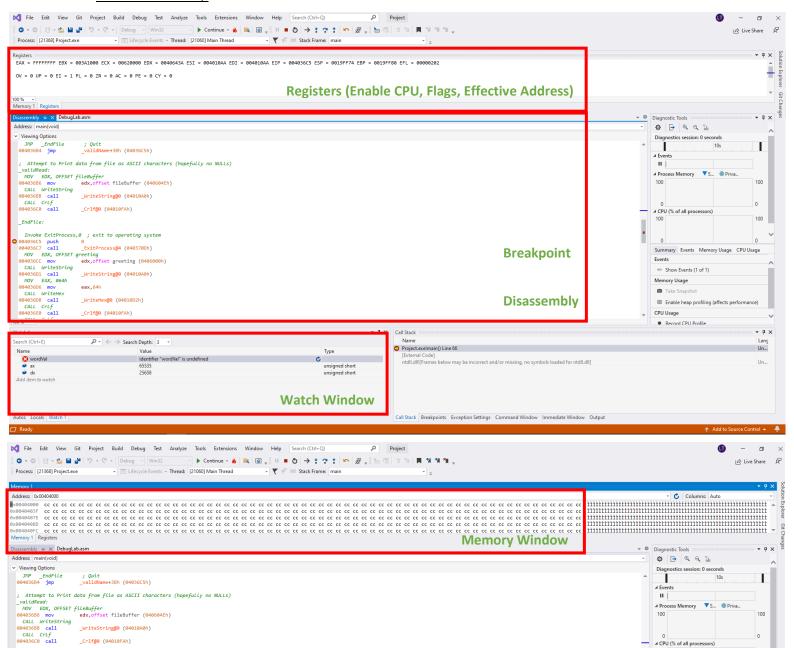


Figure 1: Screenshots of IDE state

# Question Part 1.1:

# Registers EAX = FFFFFFFF EBX = 003A1000 ECX = 00620000 EDX = 0040643A ESI = 004010AA EDI = 004010AA EIP = 004036C5 ESP = 0019FF74 EBP = 0019FF80 EFL = 00000202

Figure 1.1: Current value of EAX

Current value of EAX = FFFFFFF

# Question Part 1.2:

```
OV = 0 UP = 0 EI = 1 PL = 0 ZR = 0 AC = 0 PE = 0 CY = 0
```

Carry Flag (CY): Clear

Overflow Flag (OV): Clear

Zero Flag (ZR): Clear

Sign Flag (PL): Clear

#### Question Part 2:

EAX = 00000419

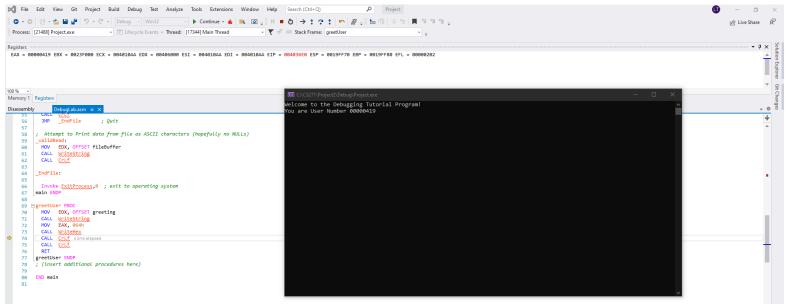


Figure 2: Screenshots of Changing last 3 digits of EAX to OSU ID

# Question Part 3.1:

MOV EDX, OFFSET fileNameError

Question Part 3.2:

00403679

# Question Part 3.2:

EIP stores the address of the next instruction, thus the value in EIP will change according to the address of the next execution line.



Figure 3.1: Instruction at the validName code label

# Question Part 4.1:

Last 3 digits of OSU ID = 419

Enter: &fileBuffer+420 (equivalent address: 0x004061F6)

ASCII character: s

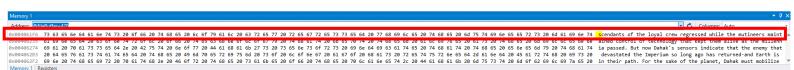


Figure 4.1: Address of (n+1)th byte

# Question Part 5:

Before execution of the line (MOV fileHandle, EAX): 0

After execution of the line: 256

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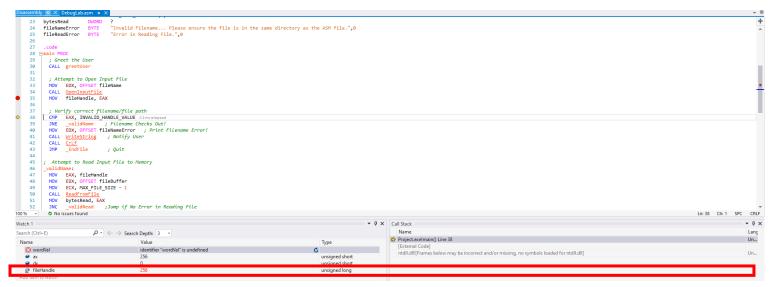


Figure 5: Value of fileHandle