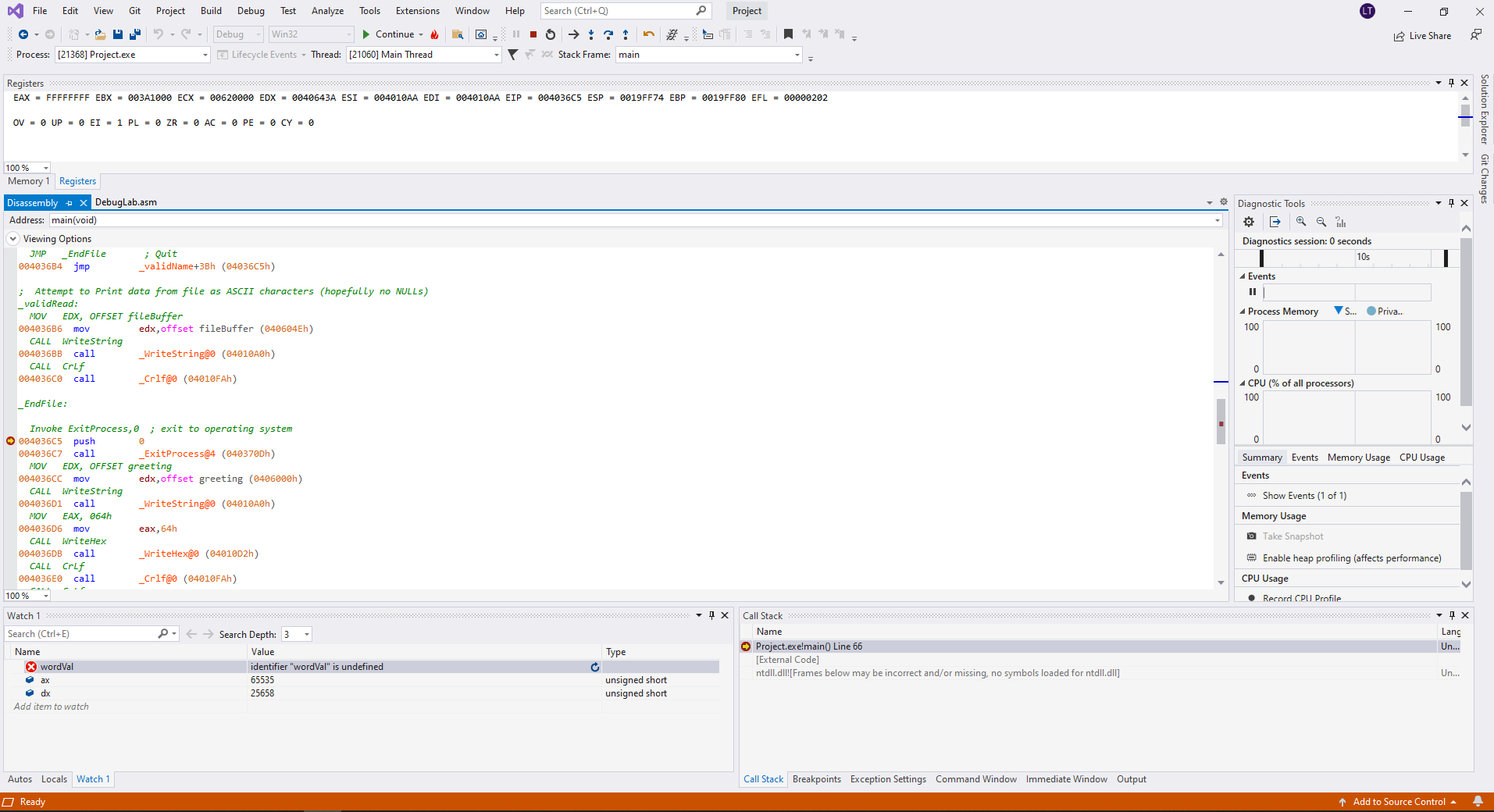
Part 1: Initial Setup



**Disassembly**

**Watch Window**

**Breakpoint**

**Registers (Enable CPU, Flags, Effective Address)**

Graphical user interface, application, Word

Description automatically generated

**Memory Window**

## *Figure 1: Screenshots of IDE state*

Question Part 1.1:



## *Figure 1.1: Current value of EAX*

Current value of EAX = FFFFFFFF

Question Part 1.2:



Carry Flag (CY): Clear

Overflow Flag (OV): Clear

Zero Flag (ZR): Clear

Sign Flag (PL): Clear

Question Part 2:

Graphical user interface, application

Description automatically generatedEAX = 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:

Graphical user interface, application, Word

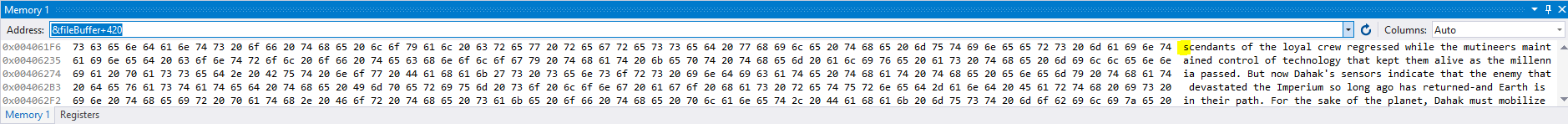
Description automatically generatedEIP stores the address of the next instruction, thus the value in EIP will change according to the address of the next execution line.

## *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

Graphical user interface, text, application, Word, email

Description automatically generated

*Figure 5: Value of fileHandle*