

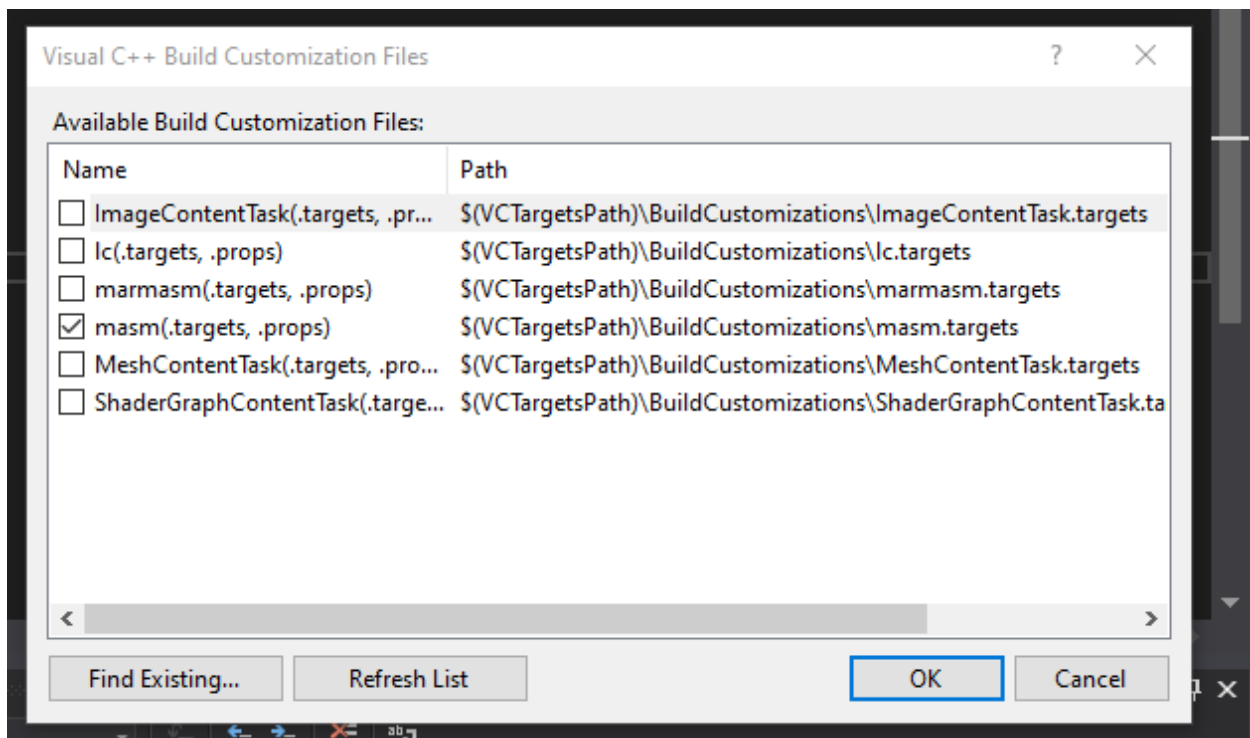
Muhammad Mufeez

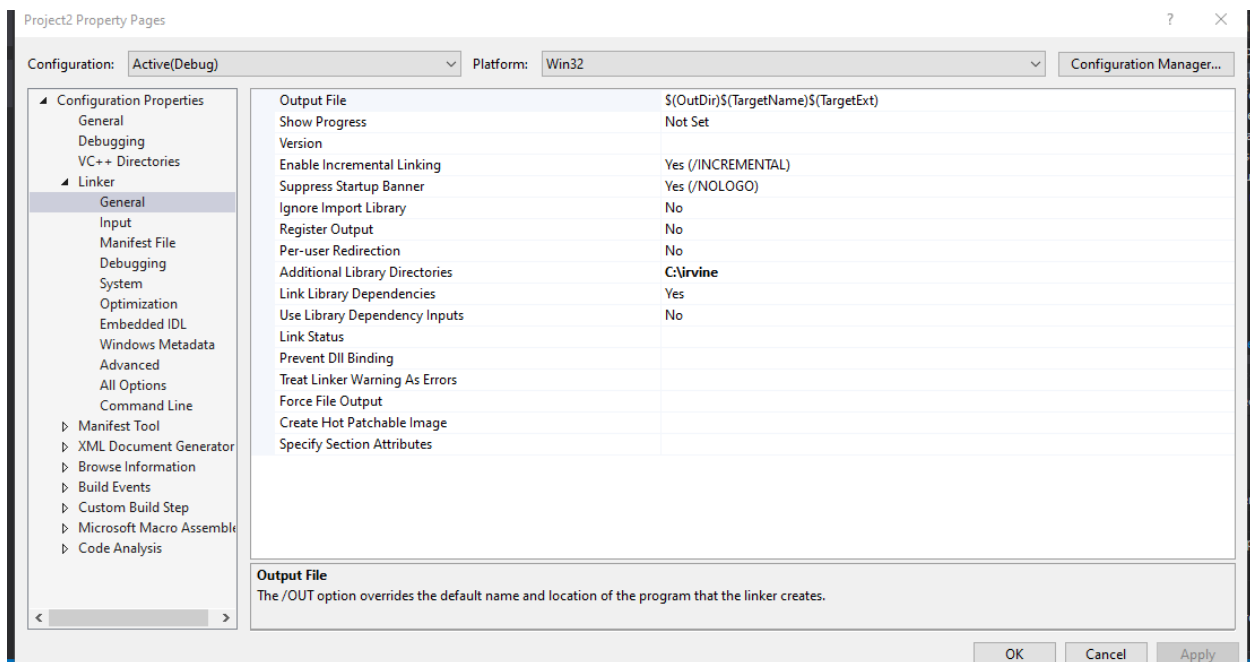
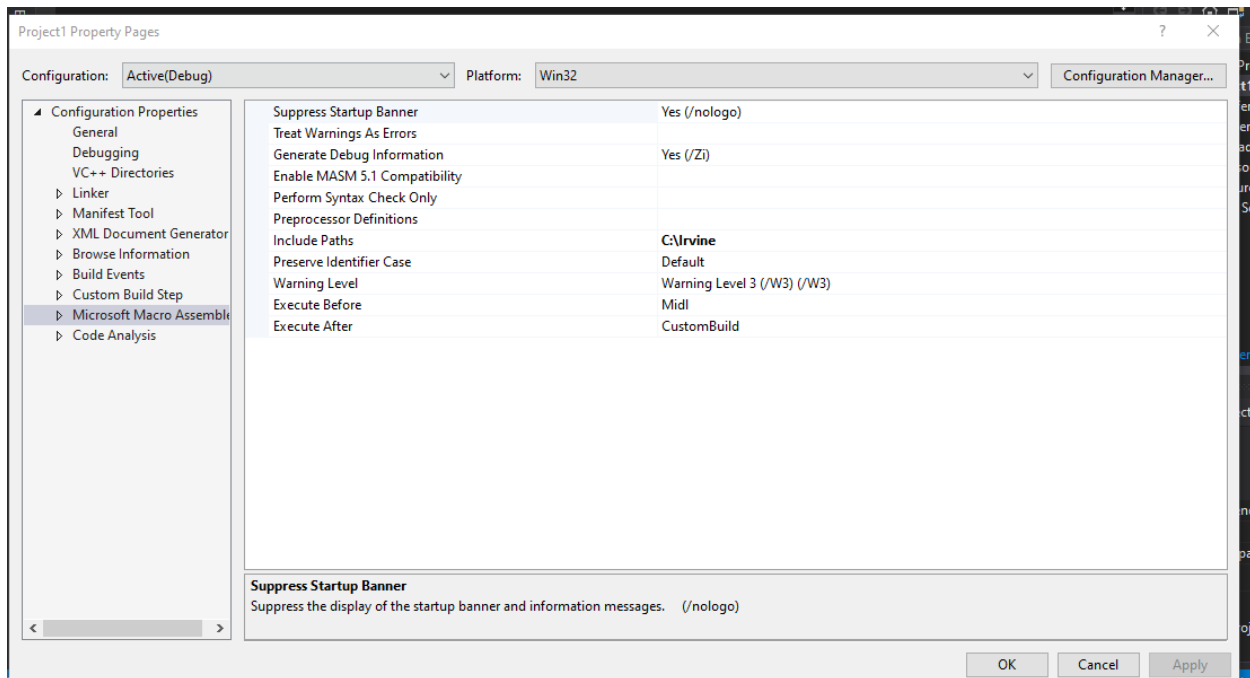
23k0800

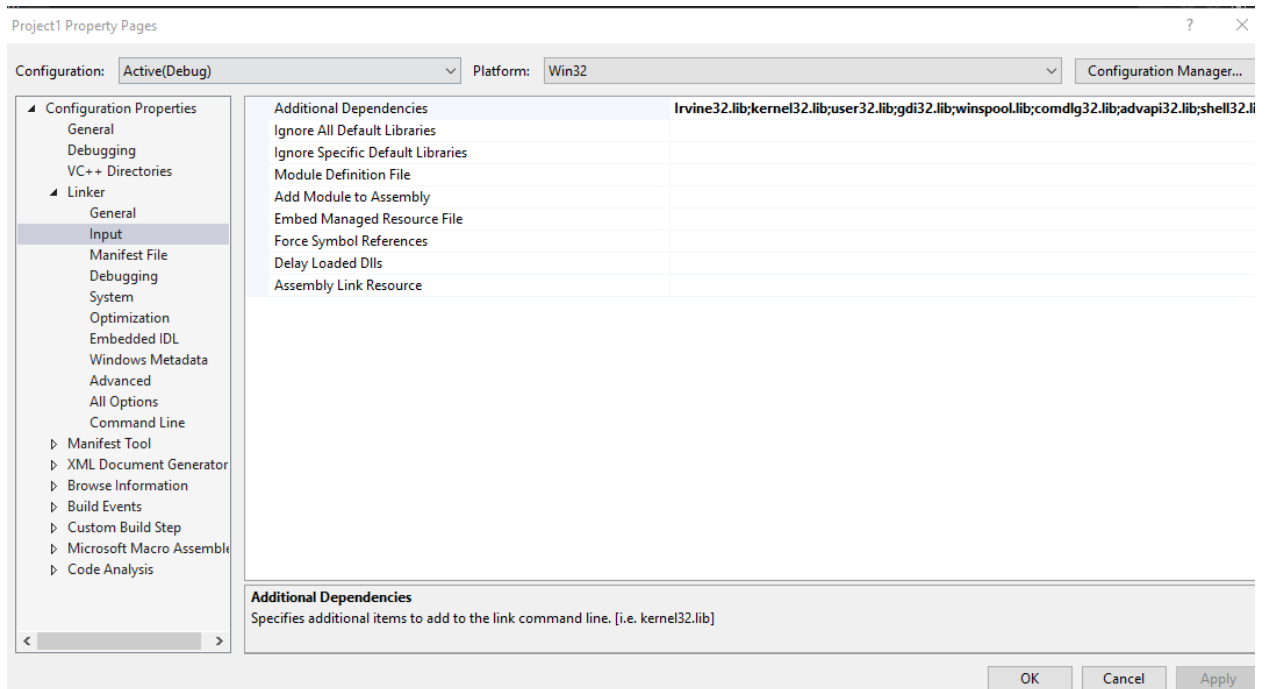
BCS-3J

Lab_01

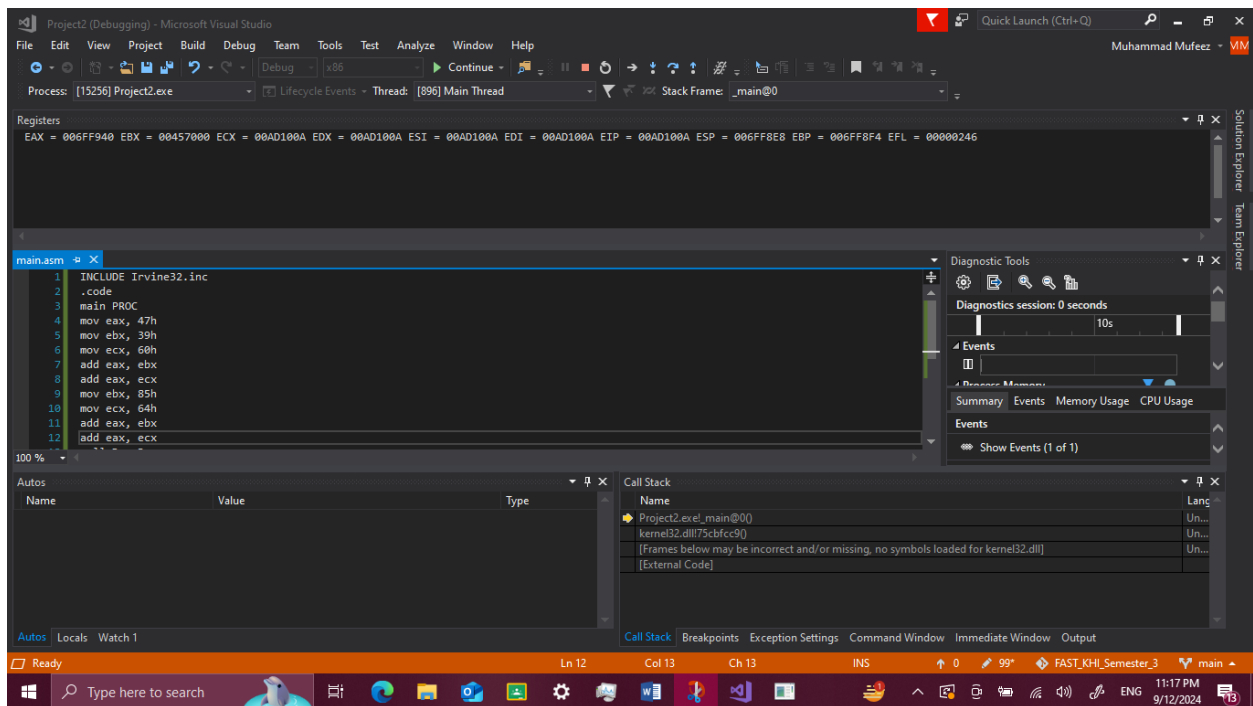
Question 2:







Task 3:



Project2 (Debugging) - Microsoft Visual Studio

File Edit View Project Build Debug Team Tools Test Analyze Window Help

Process: [15256] Project2.exe Thread: [896] Main Thread Stack Frame: main

Registers
EAX = 006FF940 EBX = 00457000 ECX = 00AD100A EDX = 00AD100A ESI = 00AD100A EDI = 00AD100A EIP = 00AD3660 ESP = 006FF8E8 EBP = 006FF8F4 EFL = 00000246

main.asm
1 INCLUDE Irvine32.inc
2 .code
3 main PROC
4 mov eax, 47h
5 mov ebx, 39h
6 mov ecx, 60h
7 add eax, ebx
8 add eax, ecx
9 mov ebx, 85h
10 mov ecx, 64h
11 add eax, ebx
12 add eax, ecx

Diagnostic Tools
Diagnostics session: 0 seconds (14 ms selected)
13ms
Events
Summary Events Memory Usage CPU Usage
Events
Show Events (2 of 2)

Autos
Name Value Type

Call Stack
Name Lang
Project2.exe!main() Line 4 Un...
[External Code] Un...
[Frames below may be incorrect and/or missing. no symbols loaded for kernel32.dll] Un...

Call Stack Breakpoints Exception Settings Command Window Immediate Window Output

Ready Ln 4 Col 1 Ch 1 INS 0 99° FAST_KH1_Semester_3 main

Type here to search

Project2 (Debugging) - Microsoft Visual Studio

File Edit View Project Build Debug Team Tools Test Analyze Window Help

Process: [4588] Project2.exe Thread: [1844] Main Thread Stack Frame: main

Registers
EAX = 00000047 EBX = 007E9000 ECX = 00AD100A EDX = 00AD100A ESI = 00AD100A EDI = 00AD100A EIP = 00AD3665 ESP = 0093FBC0 EBP = 0093FBC0 EFL = 00000246

main.asm
1 INCLUDE Irvine32.inc
2 .code
3 main PROC
4 mov eax, 47h
5 mov ebx, 39h
6 mov ecx, 60h
7 add eax, ebx
8 add eax, ecx
9 mov ebx, 85h
10 mov ecx, 64h
11 add eax, ebx
12 add eax, ecx

Diagnostic Tools
Diagnostics session: 0 seconds (16 ms selected)
15.6ms
Events
Summary Events Memory Usage CPU Usage
Events
Show Events (3 of 3)

Autos
Name Value Type

Call Stack
Name Lang
Project2.exe!main() Line 5 Un...
[External Code] Un...
[Frames below may be incorrect and/or missing. no symbols loaded for ntdll.dll] Un...

Call Stack Breakpoints Exception Settings Command Window Immediate Window Output

Ready Ln 5 Col 1 Ch 1 INS 0 99° FAST_KH1_Semester_3 main

Type here to search

Project2 (Debugging) - Microsoft Visual Studio

File Edit View Project Build Debug Team Tools Test Analyze Window Help

Process: [4588] Project2.exe Thread: [1844] Main Thread Stack Frame: main

Registers

EAX = 00000047 EBX = 00000039 ECX = 00AD108A EDX = 00AD108A ESI = 00AD108A EDI = 00AD108A EIP = 00AD366A ESP = 0093FBC0 EBP = 0093FBCC EFL = 00000246

main.asm

```
1 INCLUDE Irvine32.inc
2 .code
3 main PROC
4 mov eax, 47h
5 mov ebx, 39h
6 mov ecx, 60h 51ms elapsed
7 add eax, ebx
8 add eax, ecx
9 mov ebx, 85h
10 mov ecx, 64h
11 add eax, ebx
12 add eax, ecx
```

100 %

Autos

Name	Value	Type
------	-------	------

Call Stack

Name	Lang
Project2.exe!main() Line 6	Un...
[External Code]	Un...
[Frames below may be incorrect and/or missing. no symbols loaded for ntdll.dll]	Un...

Diagnostic Tools

Diagnostics session: 0 seconds (16 ms selected)

Events

Summary Events Memory Usage CPU Usage

Events

Show Events (4 of 4)

Ready Ln 6 Col 1 Ch 1 INS 0 99° FAST_KH1_Semester_3 main

Project2 (Debugging) - Microsoft Visual Studio

File Edit View Project Build Debug Team Tools Test Analyze Window Help

Process: [4588] Project2.exe Thread: [1844] Main Thread Stack Frame: main

Registers

EAX = 00000047 EBX = 00000039 ECX = 00000060 EDX = 00AD108A ESI = 00AD108A EDI = 00AD108A EIP = 00AD366F ESP = 0093FBC0 EBP = 0093FBCC EFL = 00000246

main.asm

```
1 INCLUDE Irvine32.inc
2 .code
3 main PROC
4 mov eax, 47h
5 mov ebx, 39h
6 mov ecx, 60h
7 add eax, ebx 51ms elapsed
8 add eax, ecx
9 mov ebx, 85h
10 mov ecx, 64h
11 add eax, ebx
12 add eax, ecx
```

100 %

Autos

Name	Value	Type
------	-------	------

Call Stack

Name	Lang
Project2.exe!main() Line 7	Un...
[External Code]	Un...
[Frames below may be incorrect and/or missing. no symbols loaded for ntdll.dll]	Un...

Diagnostic Tools

Diagnostics session: 0 seconds (16 ms selected)

Events

Summary Events Memory Usage CPU Usage

Events

Show Events (5 of 5)

Ready Ln 7 Col 1 Ch 1 INS 0 99° FAST_KH1_Semester_3 main

Project2 (Debugging) - Microsoft Visual Studio

File Edit View Project Build Debug Team Tools Test Analyze Window Help

Process: [4588] Project2.exe Thread: [1844] Main Thread Stack Frame: main

Registers
EAX = 00000080 EBX = 00000039 ECX = 00000060 EDX = 00AD100A ESI = 00AD100A EDI = 00AD100A EIP = 00AD3671 ESP = 0093FBC0 EBP = 0093FBCC EFL = 00000212

main.asm
1 INCLUDE Irvine32.inc
2 .code
3 main PROC
4 mov eax, 47h
5 mov ebx, 39h
6 mov ecx, 60h
7 add eax, ebx
8 add eax, ecx 51ms elapsed
9 mov ebx, 85h
10 mov ecx, 64h
11 add eax, ebx
12 add eax, ecx

Diagnostic Tools
Diagnostics session: 0 seconds (16 ms selected)
15.4ms 15.6ms
Events
Summary Events Memory Usage CPU Usage
Events
Show Events (6 of 6)

Autos
Name Value Type

Call Stack
Name Lang
Project2.exe!main() Line 8 Un...
[External Code] Un...
[Frames below may be incorrect and/or missing. no symbols loaded for ntdll.dll] Un...

Call Stack Breakpoints Exception Settings Command Window Immediate Window Output

Ready Ln 8 Col 1 Ch 1 INS 0 99° FAST_KH1_Semester_3 main

Project2 (Debugging) - Microsoft Visual Studio

File Edit View Project Build Debug Team Tools Test Analyze Window Help

Process: [4588] Project2.exe Thread: [1844] Main Thread Stack Frame: main

Registers
EAX = 00000080 EBX = 00000039 ECX = 00000060 EDX = 00AD100A ESI = 00AD100A EDI = 00AD100A EIP = 00AD3673 ESP = 0093FBC0 EBP = 0093FBCC EFL = 00000202

main.asm
1 INCLUDE Irvine32.inc
2 .code
3 main PROC
4 mov eax, 47h
5 mov ebx, 39h
6 mov ecx, 60h
7 add eax, ebx
8 add eax, ecx
9 mov ebx, 85h 51ms elapsed
10 mov ecx, 64h
11 add eax, ebx
12 add eax, ecx

Diagnostic Tools
Diagnostics session: 0 seconds (16 ms selected)
15.6ms 11.1ms
Events
Summary Events Memory Usage CPU Usage
Events
Show Events (7 of 7)

Autos
Name Value Type

Call Stack
Name Lang
Project2.exe!main() Line 9 Un...
[External Code] Un...
[Frames below may be incorrect and/or missing. no symbols loaded for ntdll.dll] Un...

Call Stack Breakpoints Exception Settings Command Window Immediate Window Output

Ready Ln 9 Col 1 Ch 1 INS 0 99° FAST_KH1_Semester_3 main

Project2 (Debugging) - Microsoft Visual Studio

File Edit View Project Build Debug Team Tools Test Analyze Window Help

Process: [4588] Project2.exe Thread: [1844] Main Thread Stack Frame: main

Registers

EAX = 000000E0 EBX = 00000085 ECX = 000000E0 EDX = 00AD100A ESI = 00AD100A EDI = 00AD100A EIP = 00AD3678 ESP = 0093FBC0 EBP = 0093FBCC EFL = 00000202

main.asm

```
1 INCLUDE Irvine32.inc
2 .code
3 main PROC
4 mov eax, 47h
5 mov ebx, 39h
6 mov ecx, 60h
7 add eax, ebx
8 add eax, ecx
9 mov ebx, 85h
10 mov ecx, 64h 51ms elapsed
11 add eax, ebx
12 add eax, ecx
```

Diagnostic Tools

Diagnostics session: 0 seconds (17 ms selected)

Events

Summary Events Memory Usage CPU Usage

Events

Show Events (8 of 8)

Autos

Name	Value	Type
------	-------	------

Call Stack

Name	Lang
Project2.exe!main() Line 10	Un...
[External Code]	Un...
[Frames below may be incorrect and/or missing. no symbols loaded for ntdll.dll]	Un...

Call Stack Breakpoints Exception Settings Command Window Immediate Window Output

Ready Ln 10 Col 1 Ch 1 INS ↑ 0 99° FAST_KH1_Semester_3 main

Type here to search

11:18 PM 9/12/2024

Project2 (Debugging) - Microsoft Visual Studio

File Edit View Project Build Debug Team Tools Test Analyze Window Help

Process: [4588] Project2.exe Thread: [1844] Main Thread Stack Frame: main

Registers

EAX = 000000E0 EBX = 00000085 ECX = 000000E4 EDX = 00AD100A ESI = 00AD100A EDI = 00AD100A EIP = 00AD367D ESP = 0093FBC0 EBP = 0093FBCC EFL = 00000202

main.asm

```
1 INCLUDE Irvine32.inc
2 .code
3 main PROC
4 mov eax, 47h
5 mov ebx, 39h
6 mov ecx, 60h
7 add eax, ebx
8 add eax, ecx
9 mov ebx, 85h
10 mov ecx, 64h
11 add eax, ebx 51ms elapsed
12 add eax, ecx
```

Diagnostic Tools

Diagnostics session: 0 seconds (17 ms selected)

Events

Summary Events Memory Usage CPU Usage

Events

Show Events (9 of 9)

Autos

Name	Value	Type
------	-------	------

Call Stack

Name	Lang
Project2.exe!main() Line 11	Un...
[External Code]	Un...
[Frames below may be incorrect and/or missing. no symbols loaded for ntdll.dll]	Un...

Call Stack Breakpoints Exception Settings Command Window Immediate Window Output

Ready Ln 11 Col 1 Ch 1 INS ↑ 0 99° FAST_KH1_Semester_3 main

Type here to search

11:18 PM 9/12/2024

Project2 (Debugging) - Microsoft Visual Studio

File Edit View Project Build Debug Team Tools Test Analyze Window Help

Process: [4588] Project2.exe Thread: [1844] Main Thread Stack Frame: main

Registers

EAX = 00000165 EBX = 00000085 ECX = 00000064 EDX = 00AD100A ESI = 00AD100A EDI = 00AD100A EIP = 00AD367F ESP = 0093FBC0 EBP = 0093FBCC EFL = 00000206

main.asm

```
1 INCLUDE Irvine32.inc
2 .code
3 main PROC
4 mov eax, 47h
5 mov ebx, 39h
6 mov ecx, 60h
7 add eax, ebx
8 add eax, ecx
9 mov ebx, 85h
10 mov ecx, 64h
11 add eax, ebx
12 add eax, ecx 51ms elapsed
```

100 %

Autos

Name	Value	Type
------	-------	------

Call Stack

Name	Lang
Project2.exe!main() Line 12	Un...
[External Code]	Un...
[Frames below may be incorrect and/or missing. no symbols loaded for ntdll.dll]	Un...

Diagnostic Tools

Diagnostics session: 0 seconds (17 ms selected)

15.6ms 15.8ms

Events

Summary Events Memory Usage CPU Usage

Show Events (10 of 10)

Ready Ln 12 Col 1 Ch 1 INS 0 99° FAST_KH1_Semester_3 main

Type here to search

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Project2 (Debugging) - Microsoft Visual Studio

File Edit View Project Build Debug Team Tools Test Analyze Window Help

Process: [4588] Project2.exe Thread: [1844] Main Thread Stack Frame: main

Registers

EAX = 000001C9 EBX = 00000085 ECX = 00000064 EDX = 00AD100A ESI = 00AD100A EDI = 00AD100A EIP = 00AD3681 ESP = 0093FBC0 EBP = 0093FBCC EFL = 00000206

main.asm

```
2 .code
3 main PROC
4 mov eax, 47h
5 mov ebx, 39h
6 mov ecx, 60h
7 add eax, ebx
8 add eax, ecx
9 mov ebx, 85h
10 mov ecx, 64h
11 add eax, ebx
12 add eax, ecx
13 call DumpRegs 51ms elapsed
```

100 %

Autos

Name	Value	Type
------	-------	------

Call Stack

Name	Lang
Project2.exe!main() Line 13	Un...
[External Code]	Un...
[Frames below may be incorrect and/or missing. no symbols loaded for ntdll.dll]	Un...

Diagnostic Tools

Diagnostics session: 0 seconds (17 ms selected)

15.6ms 15.8ms

Events

Summary Events Memory Usage CPU Usage

Show Events (11 of 11)

Ready Ln 13 Col 1 Ch 1 INS 0 99° FAST_KH1_Semester_3 main

Type here to search

11:19 PM 9/12/2024

