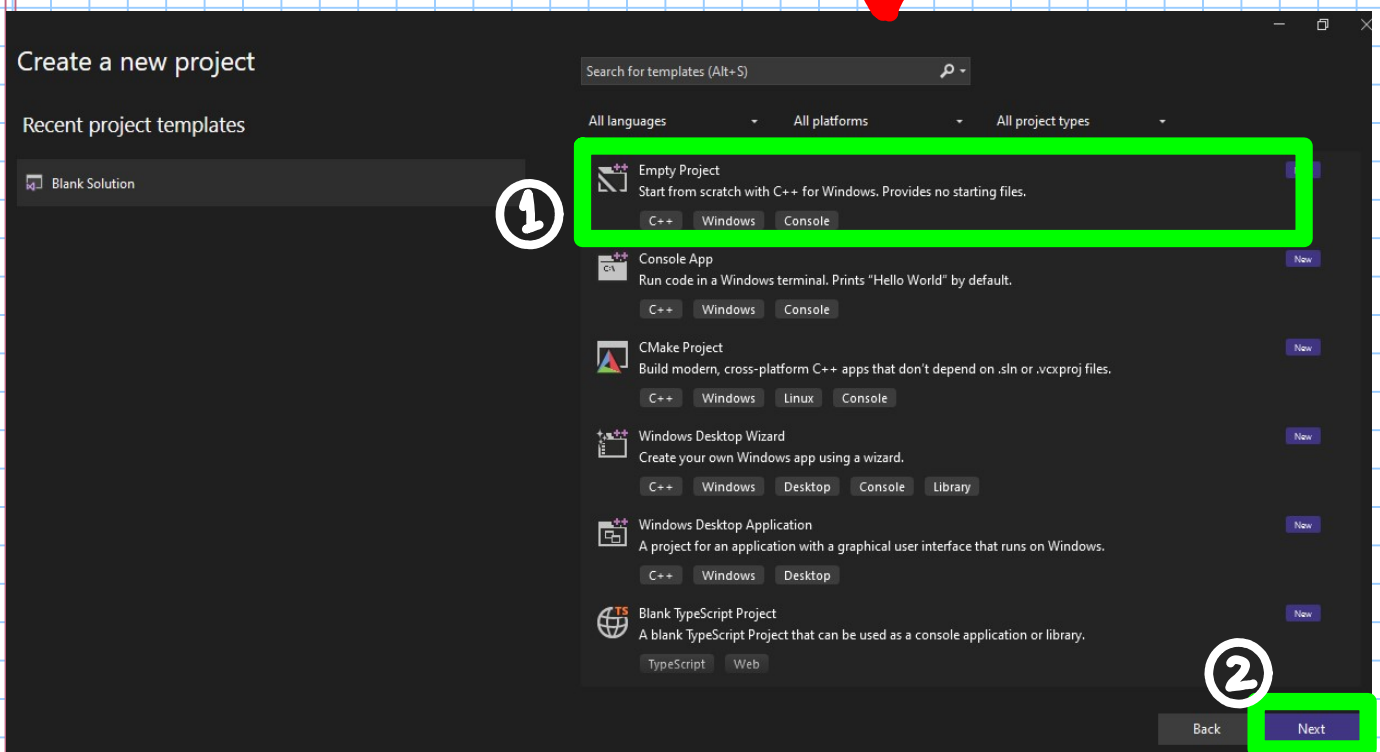
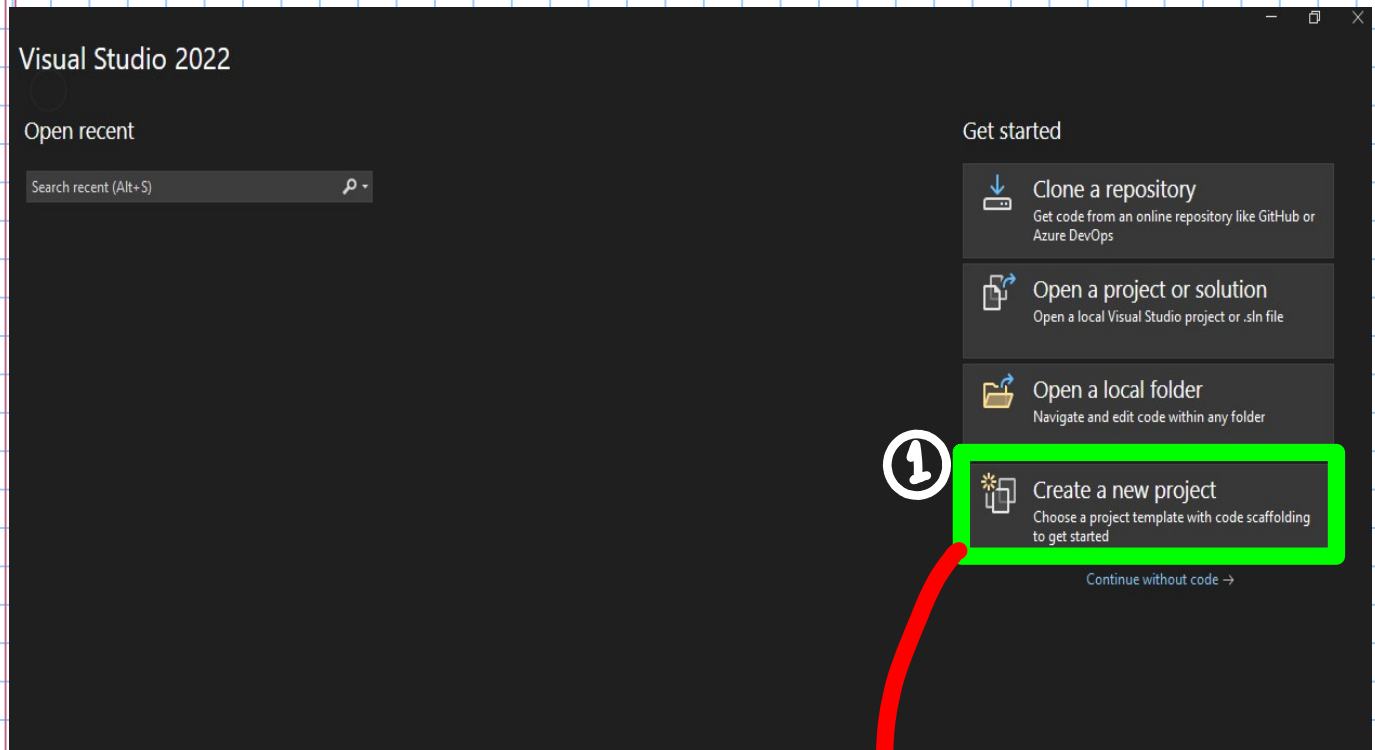
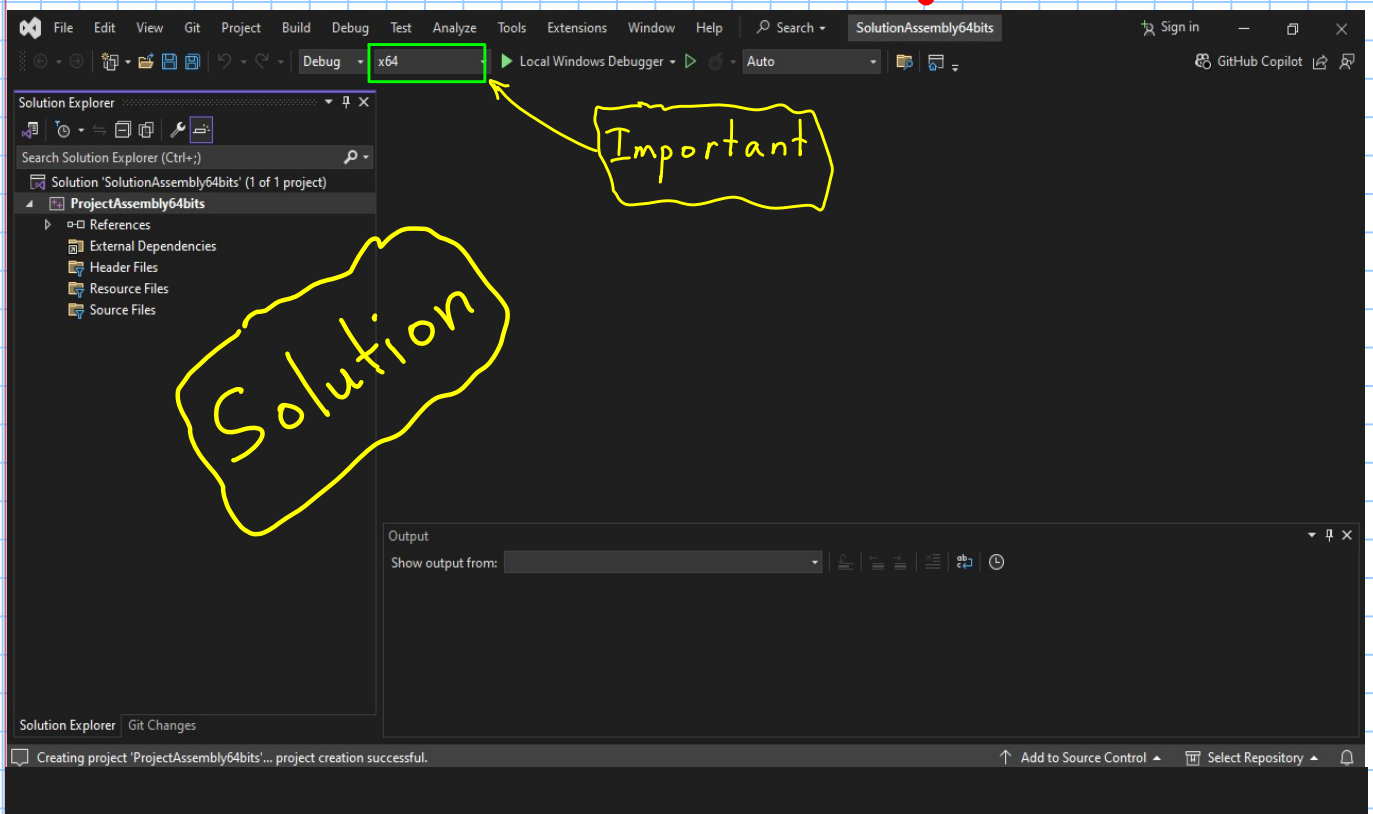
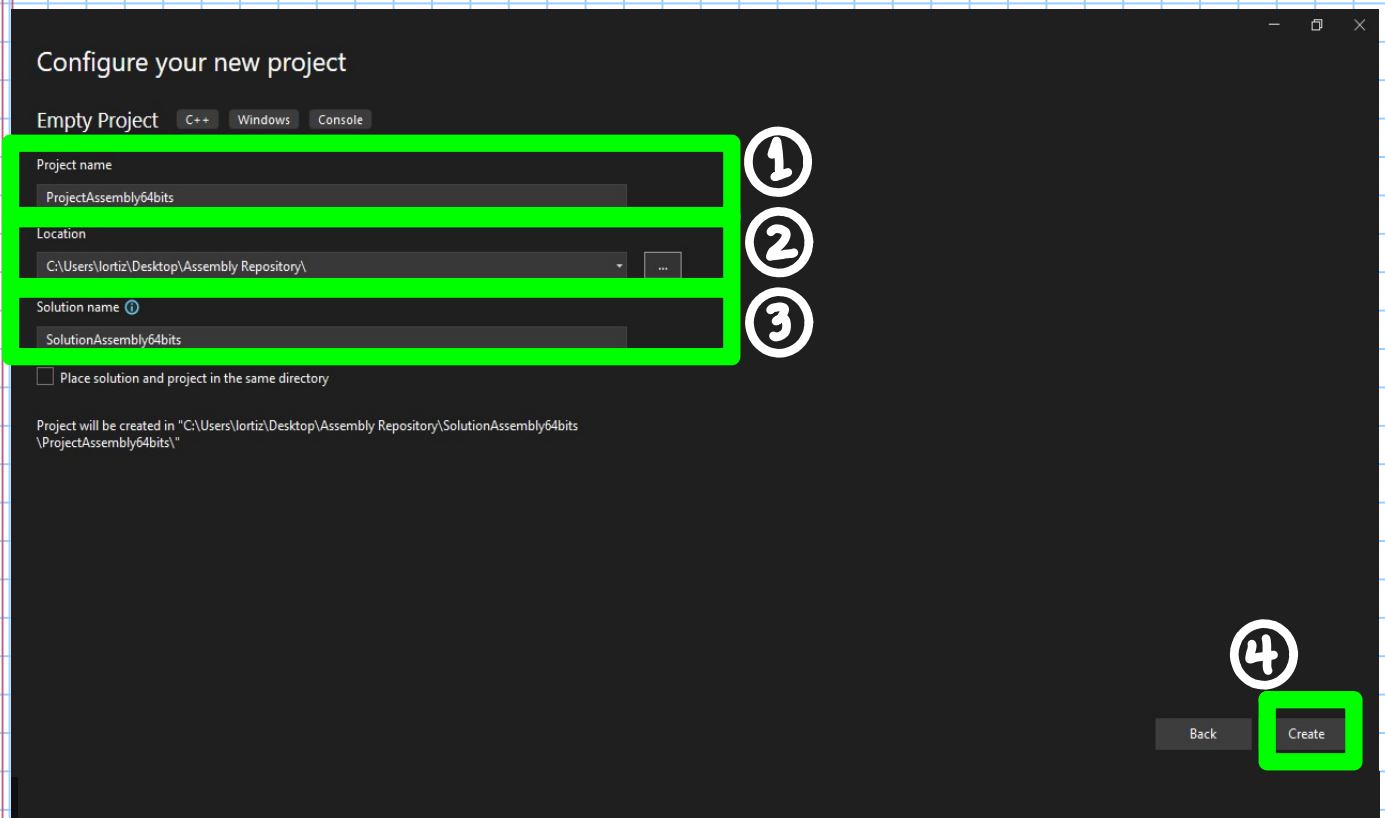


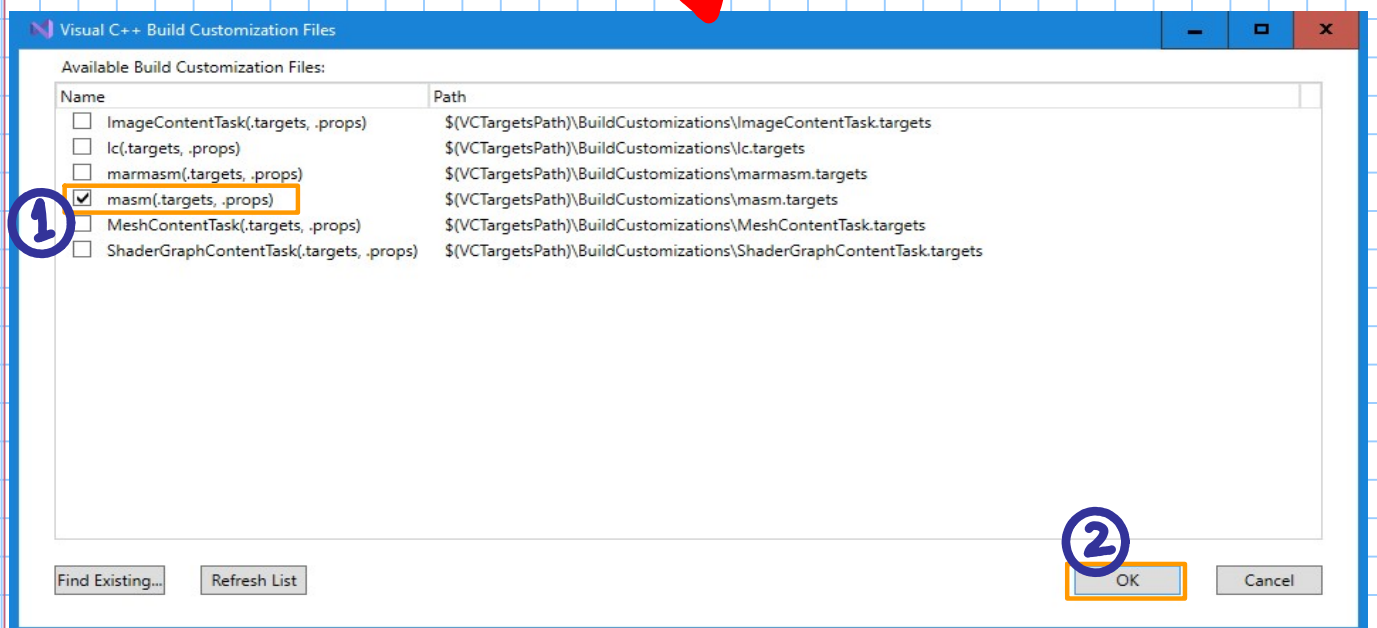
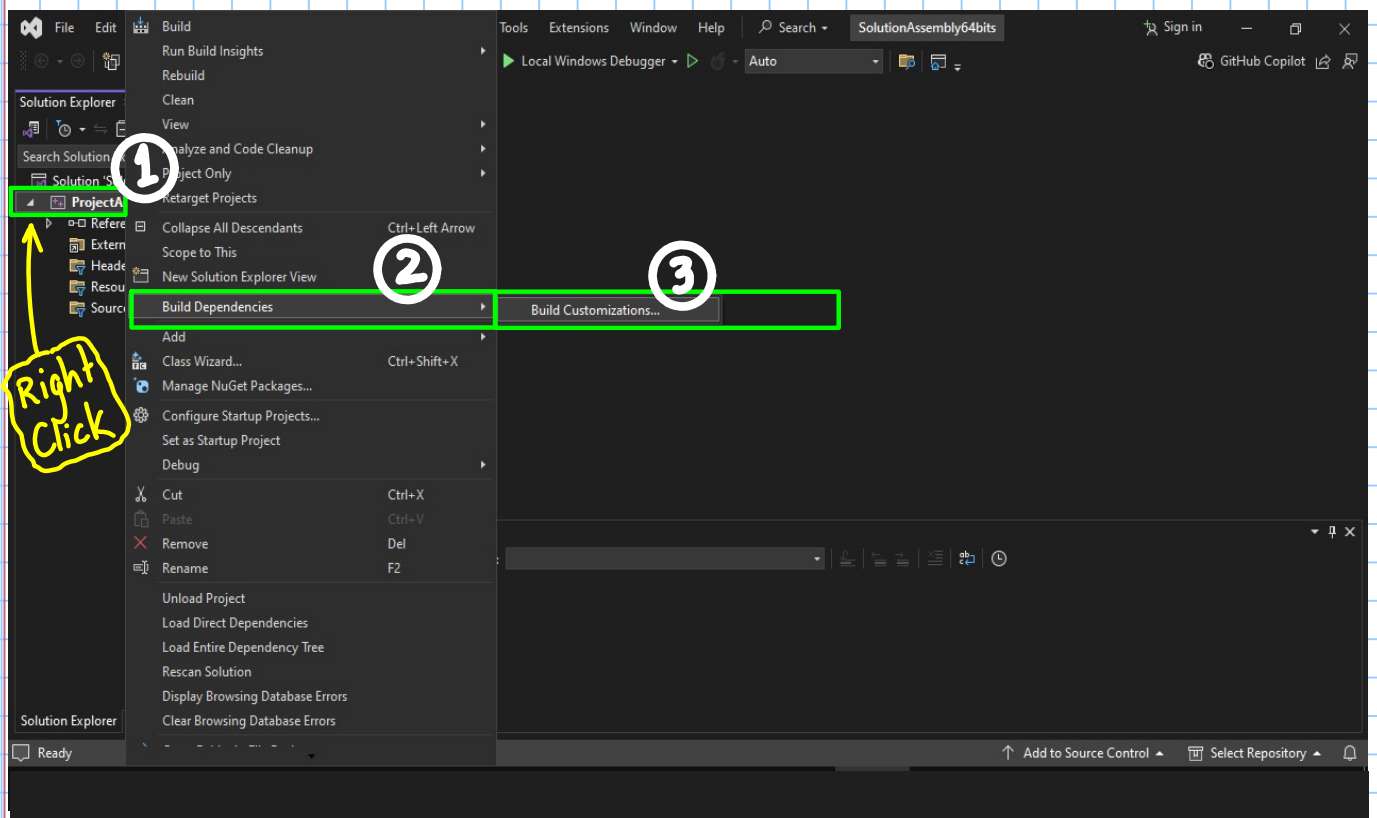
How to construct a 64 bits(x64) program

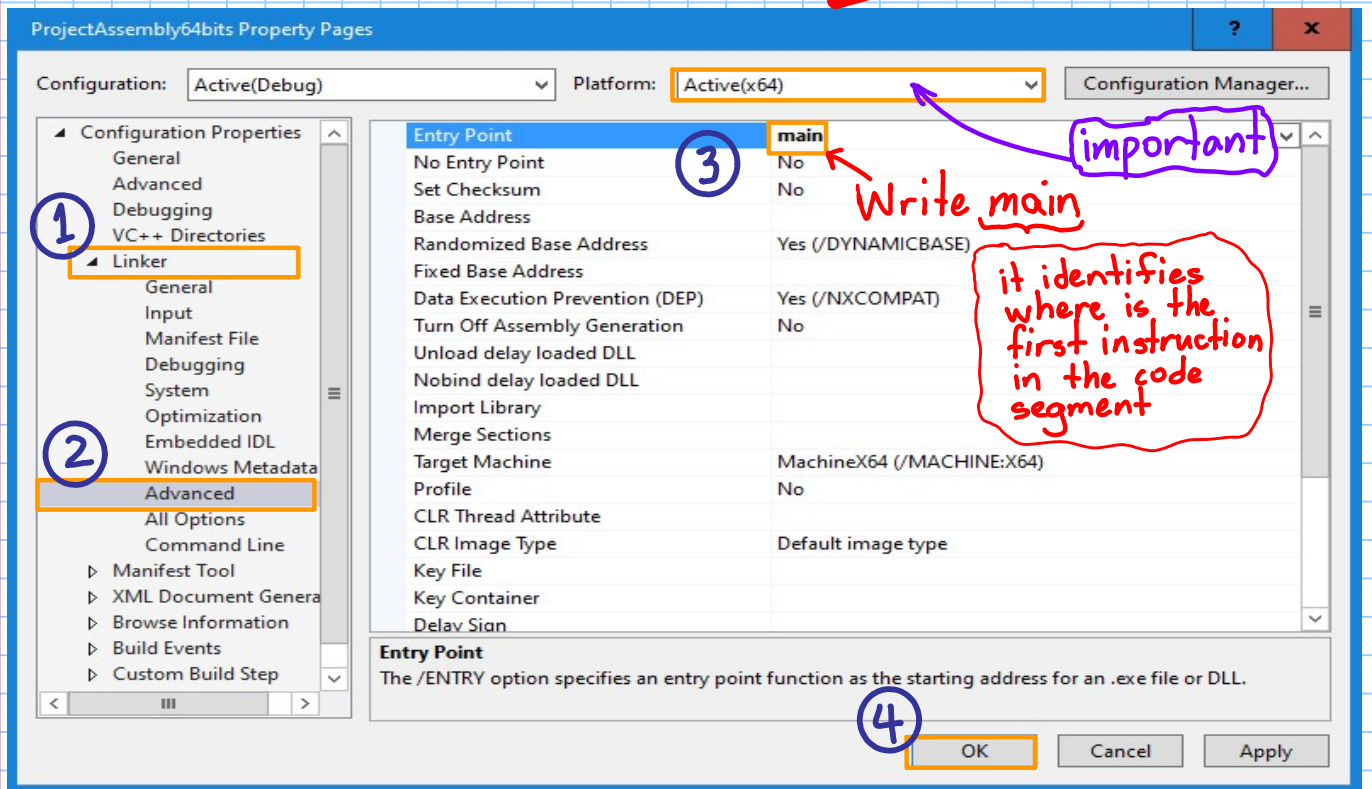
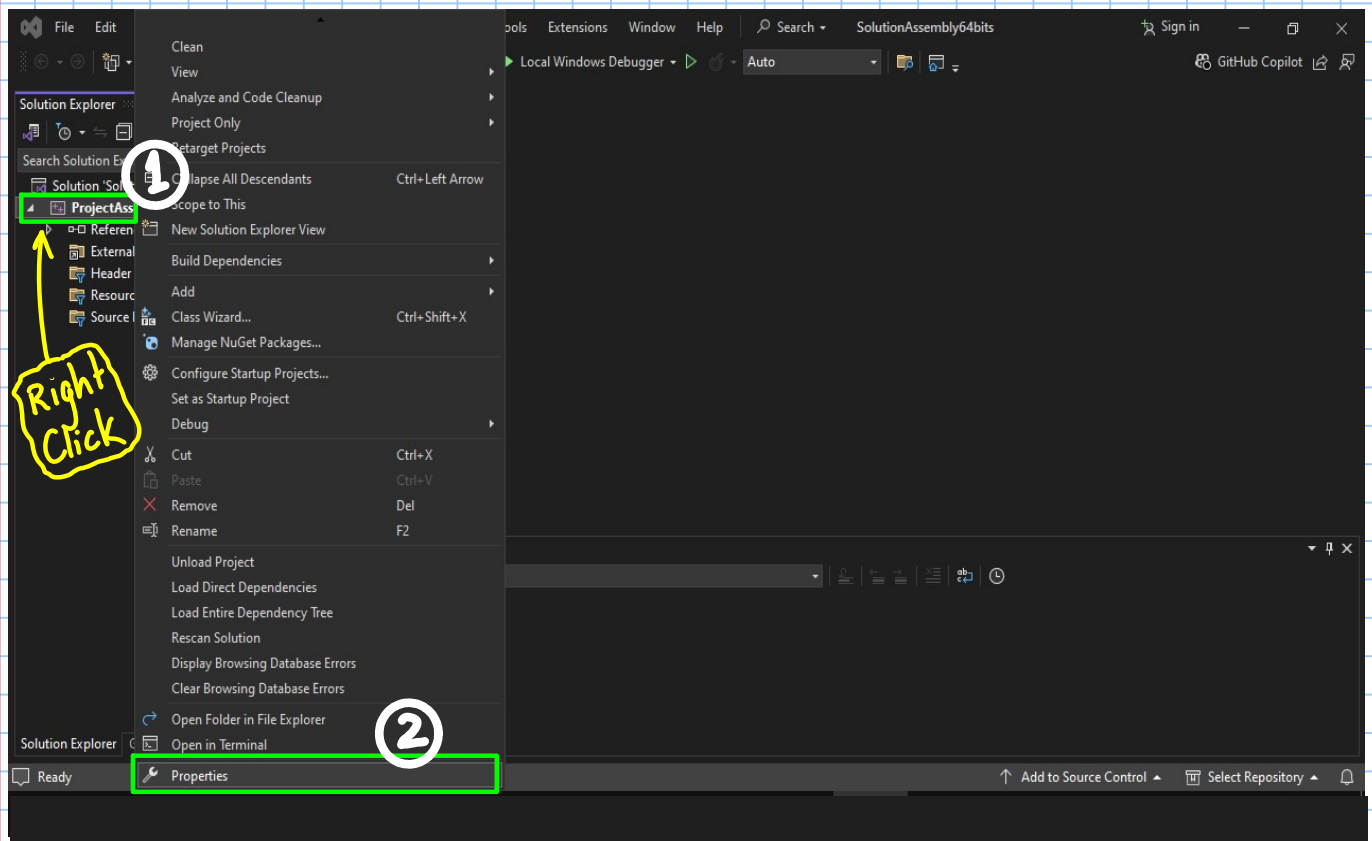
Note Title

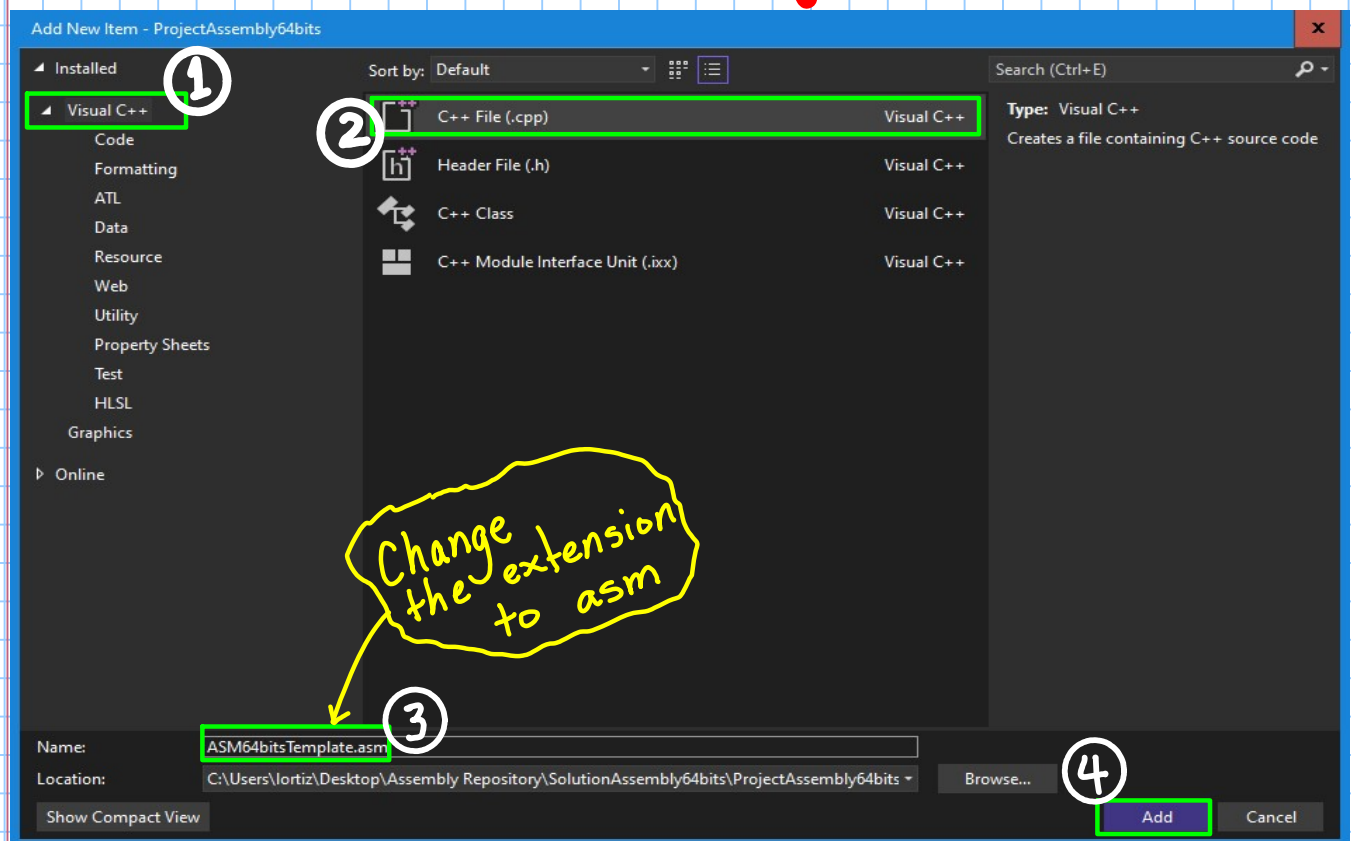
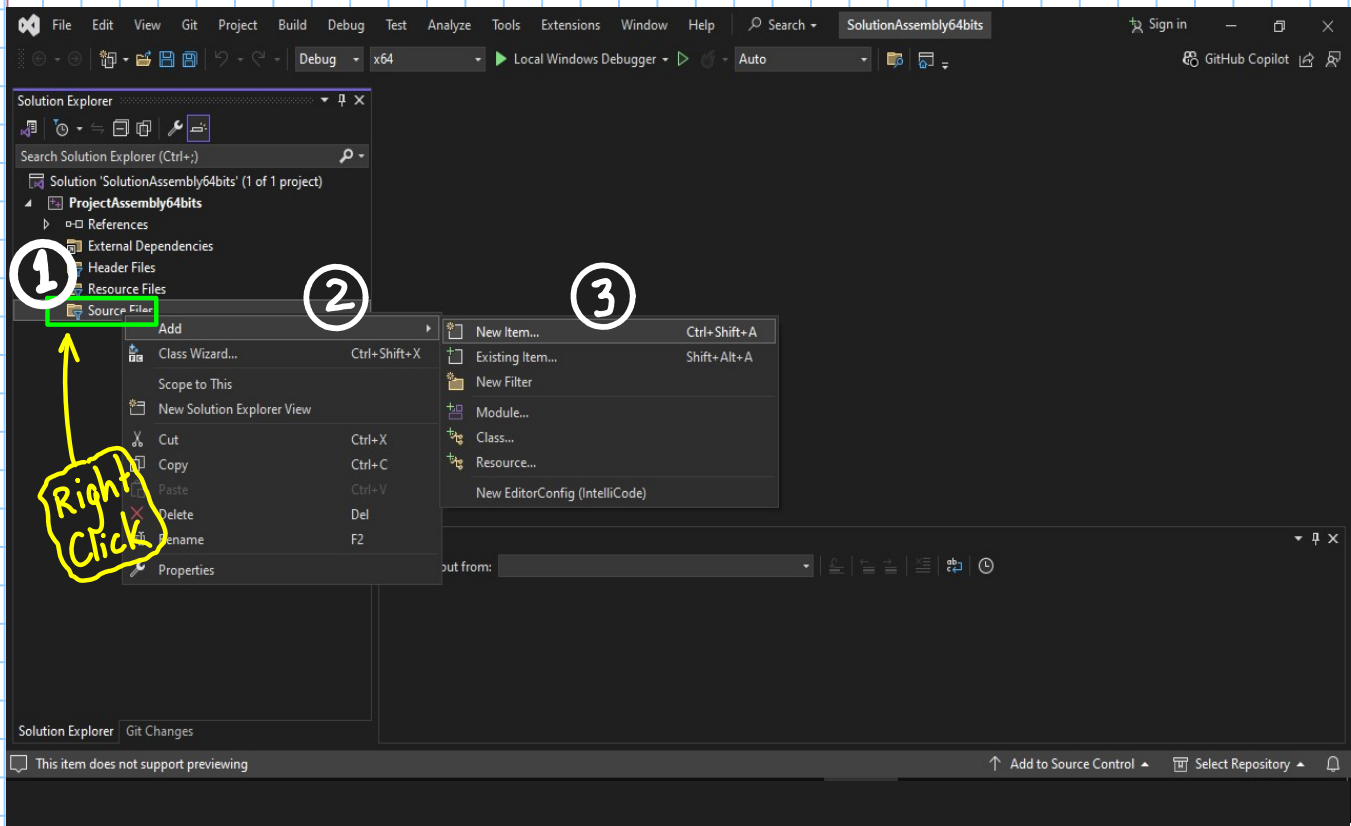
Prof. L.Ortiz

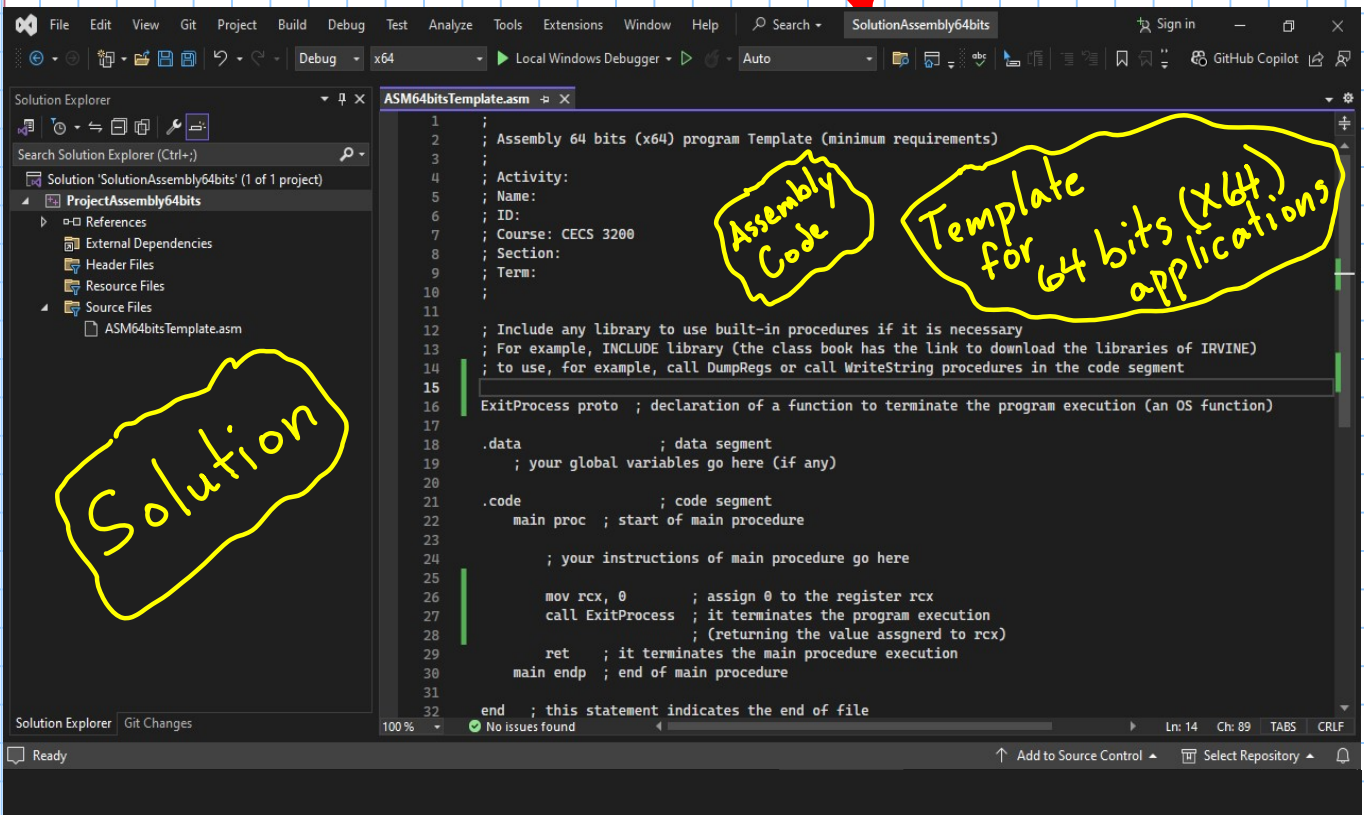
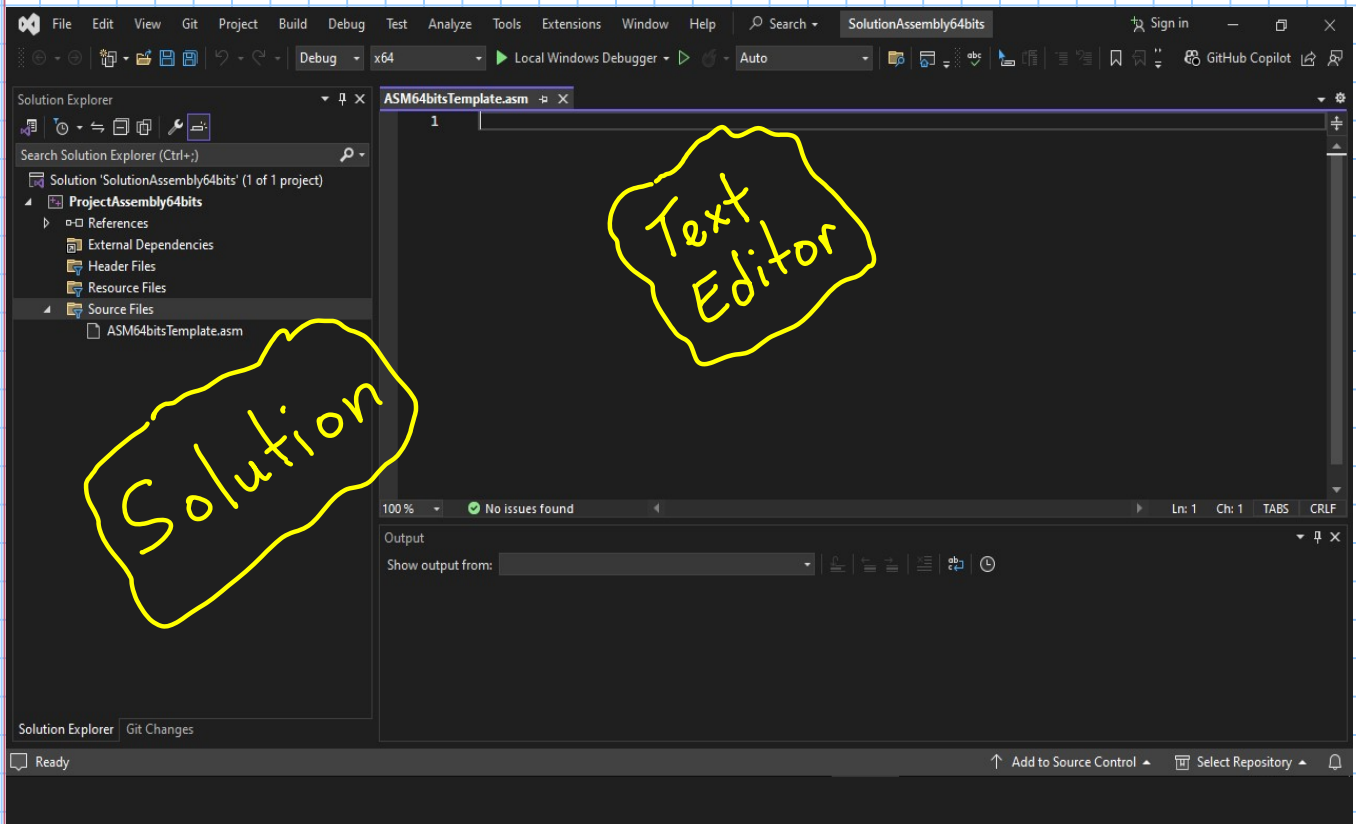












Template Code

```
ASM64bitsTemplate.asm
1  ;
2  ; Assembly 64 bits (x64) program Template (minimum requirements)
3  ;
4  ; Activity:
5  ; Name:
6  ; ID:
7  ; Course: CECS 3200
8  ; Section:
9  ; Term:
10 ;
11 ;
12 ; Include any library to use built-in procedures if it is necessary
13 ; For example, INCLUDE library (the class book has the link to download the libraries of IRVINE)
14 ; to use, for example, call DumpRegs or call WriteString procedures in the code segment
15 ;
16 ExitProcess proto ; declaration of a function to terminate the program execution (an OS function)
17 ;
18 .data ; data segment
19 ; your global variables go here (if any)
20 ;
21 .code ; code segment
22 main proc ; start of main procedure
23 ;
24 ; your instructions of main procedure go here
25 ;
26 mov rcx, 0 ; assign 0 to the register rcx
27 call ExitProcess ; it terminates the program execution
28 ; (returning the value assigned to rcx)
29 ret ; it terminates the main procedure execution
30 main endp ; end of main procedure
31 ;
32 end ; this statement indicates the end of file
```

Finally

The screenshot shows the Visual Studio IDE with the following components and annotations:

- Solution Explorer:** Shows the project structure for 'SolutionAssembly64bits'.
- Source Code:** Displays the 'ASM64bitsTemplate.asm' file with the assembly code.
- Configuration:** The 'x64' configuration is selected in the 'Debug' dropdown.
- Output Window:** Shows the build output, including the message 'Build succeeded'.
- Annotations:**
 - A yellow box labeled 'Important' points to the 'x64' configuration.
 - A yellow box labeled 'Assembly Code' points to the source code editor.
 - A yellow box labeled 'Program execution' points to the output window.
 - A red arrow points from the 'Finally' text to the 'Debug' button.
 - A red arrow points from the 'Click' text to the 'Debug' button.
 - A red arrow points from the 'Program execution' box to the output window.