Secure coding

LAB - 11

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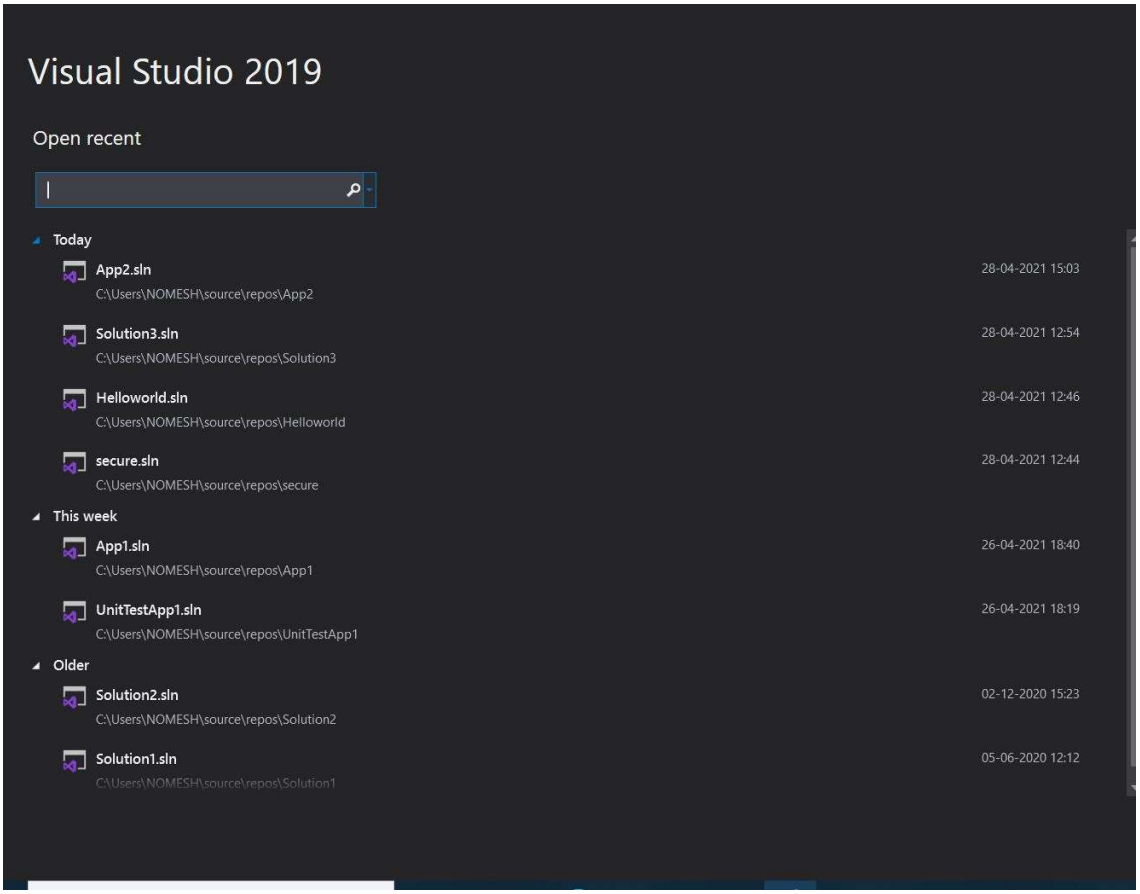
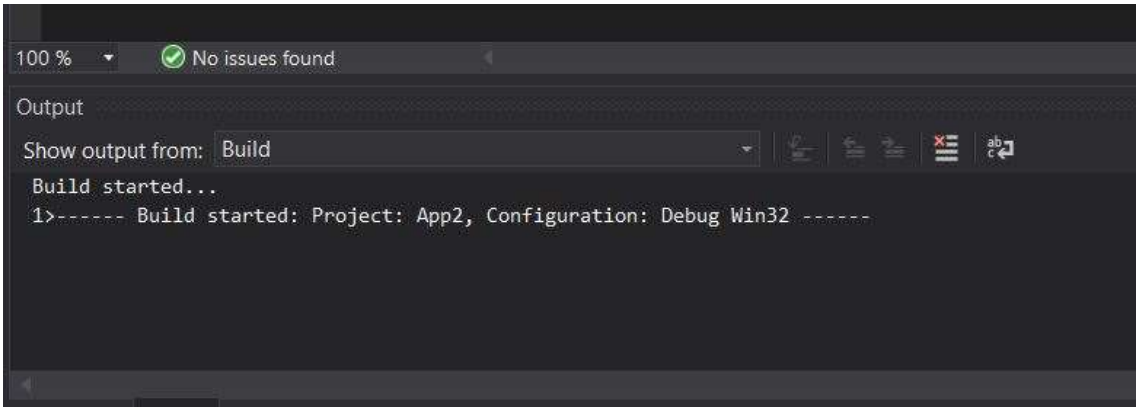
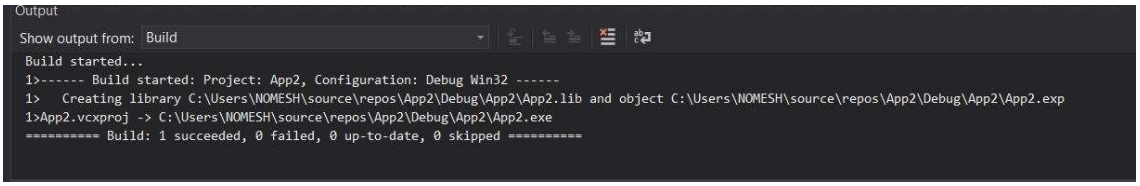
Installing the Visual studio[2019]

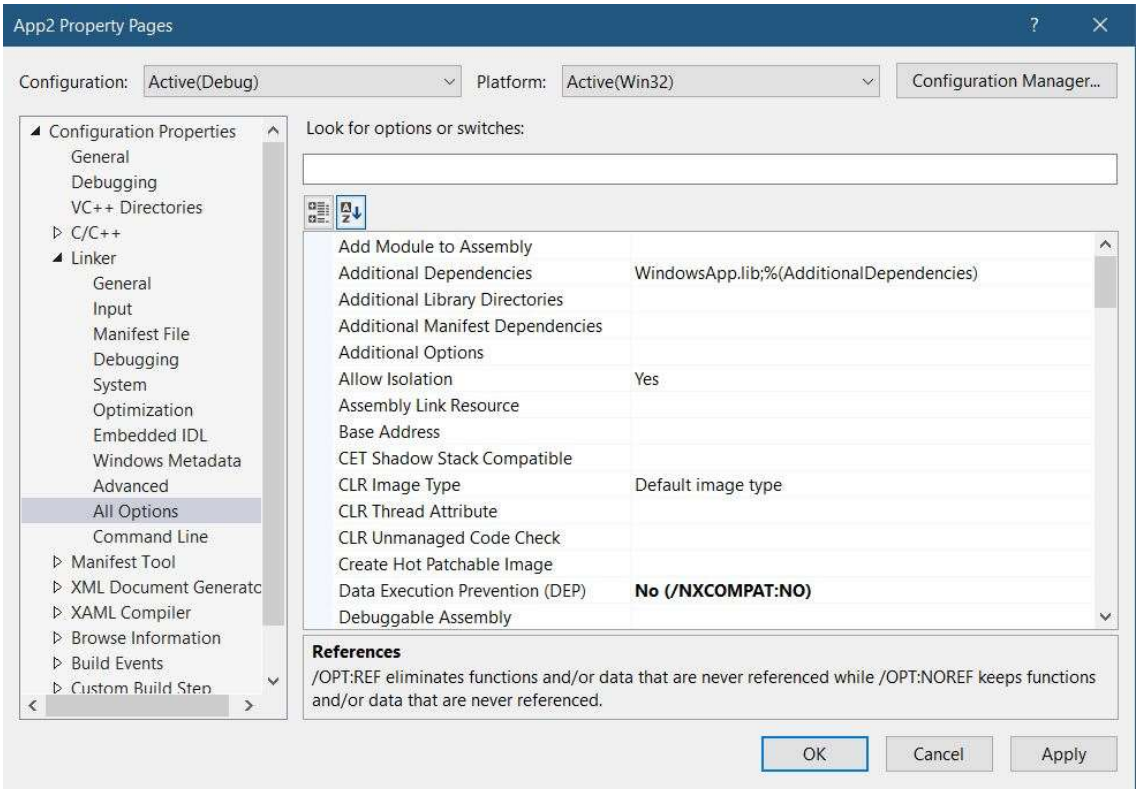


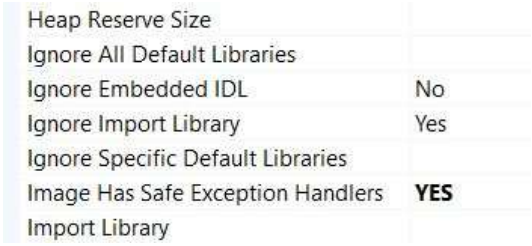
Generating the .exe file





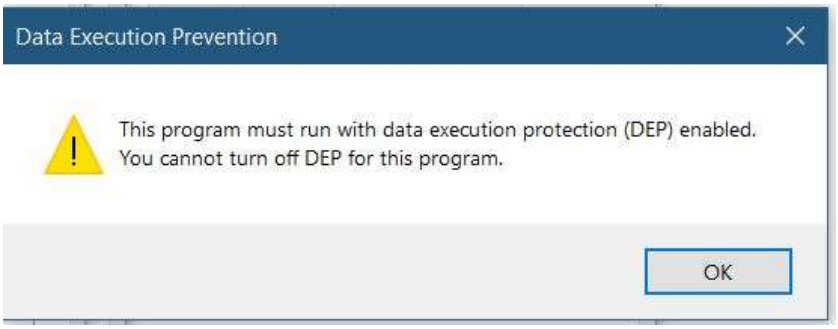
Disabling the DEP and ALSR



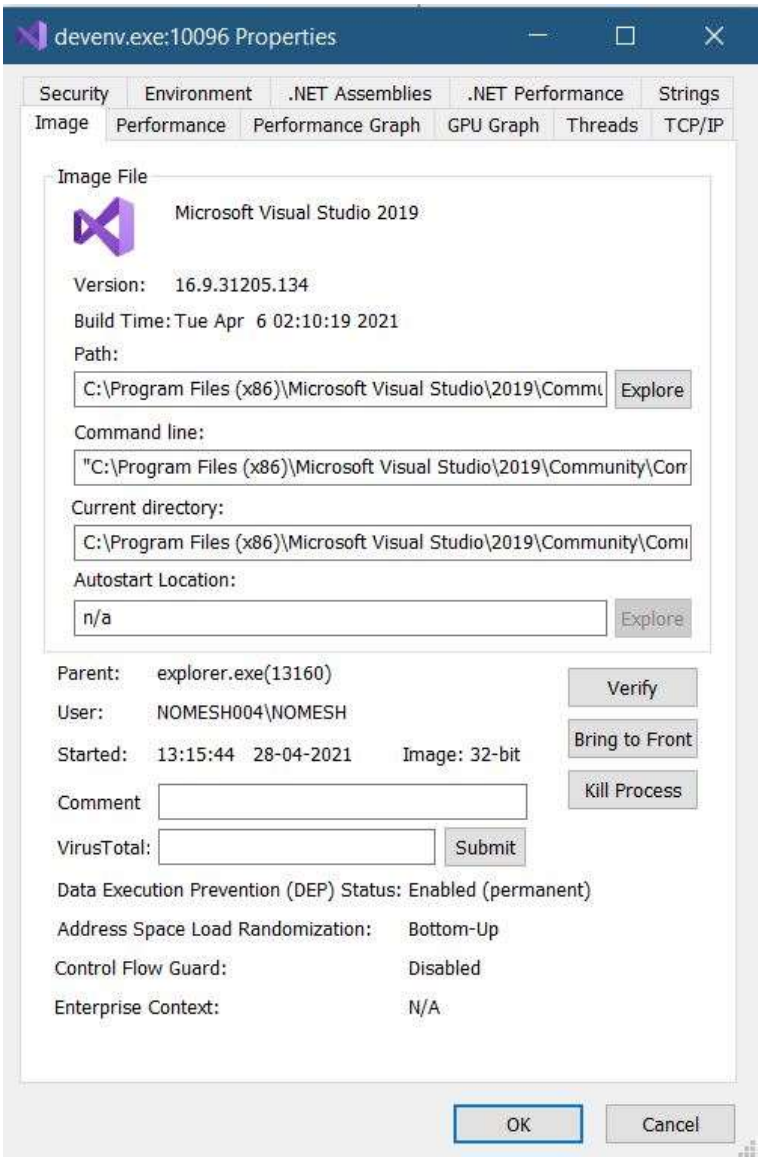


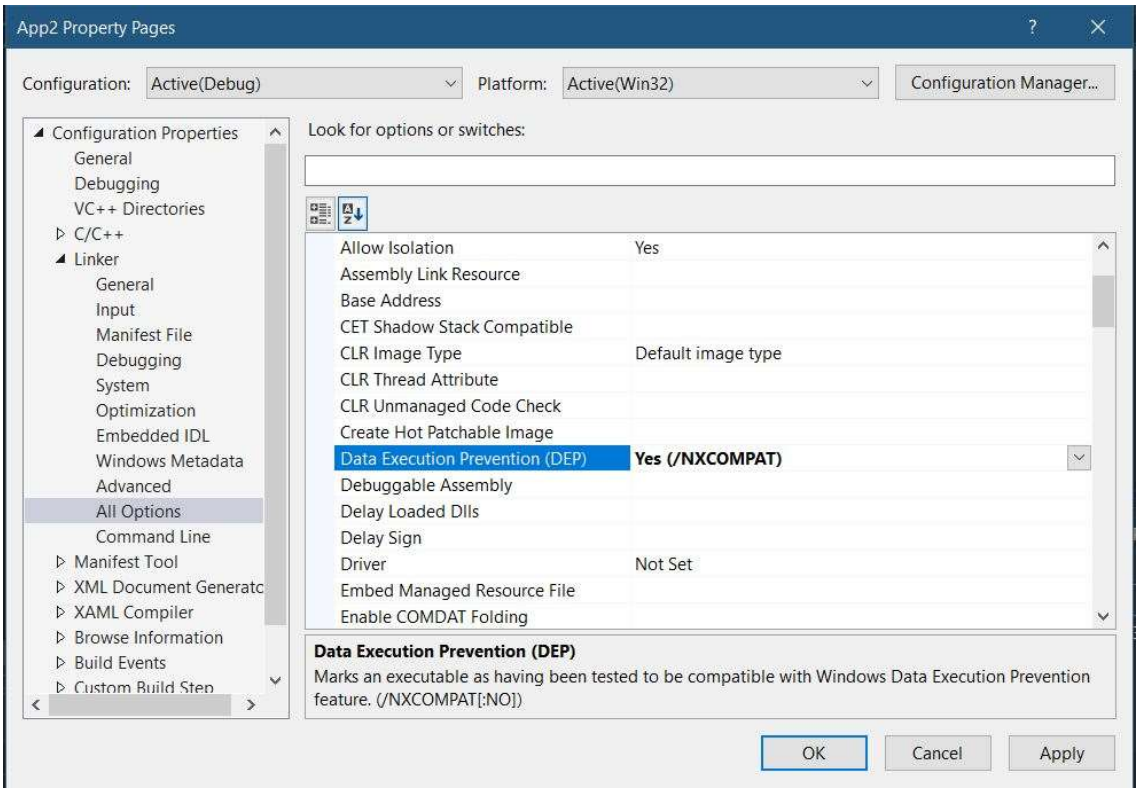
MIDL Commands	
Minimum Required Version	
Module Definition File	
No Entry Point	No
Nobind delay loaded DLL	
Output File	$(OutDir)$(TargetName)$(TargetExt)
Per-user Redirection	No
Preserve Last Error Code for PInvoke C	
Prevent Dll Binding	
Profile	No
Profile Guided Database	$(OutDir)$(TargetName).pgd
Randomized Base Address	**No (/DYNAMICBASE:NO)**
References	
Register Output	No
SectionAlignment	

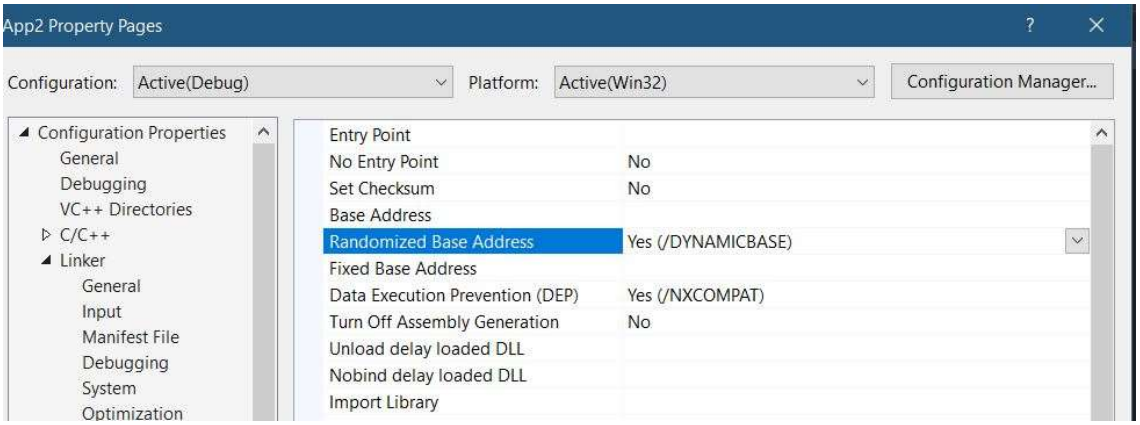
Without the DEP my system does not allow me to build the .exe file

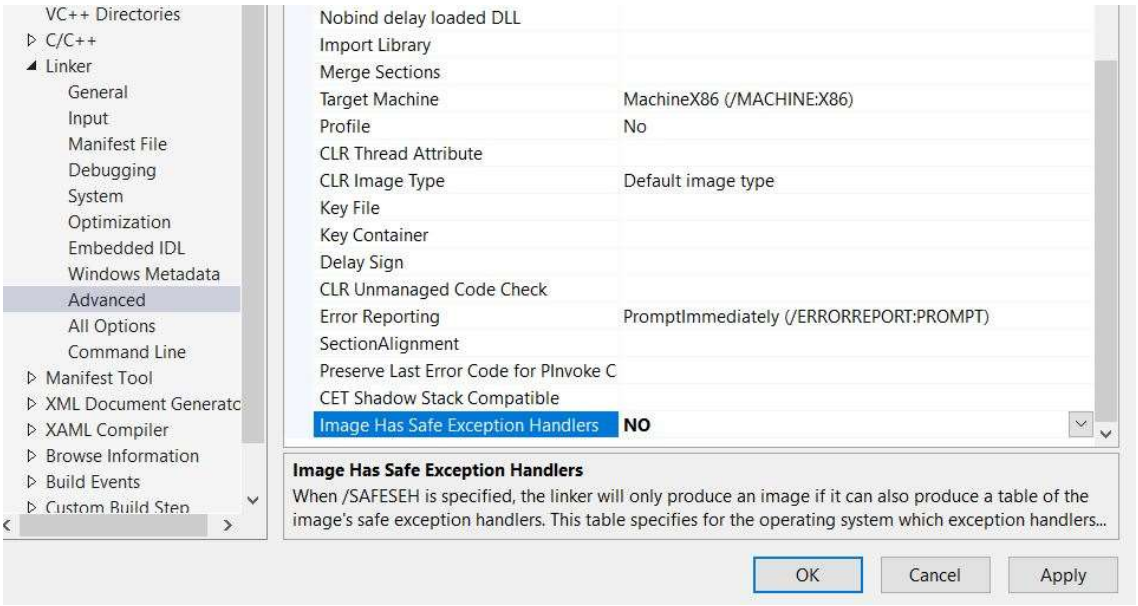


After enabling the I run the c++ code to generate the .exe file

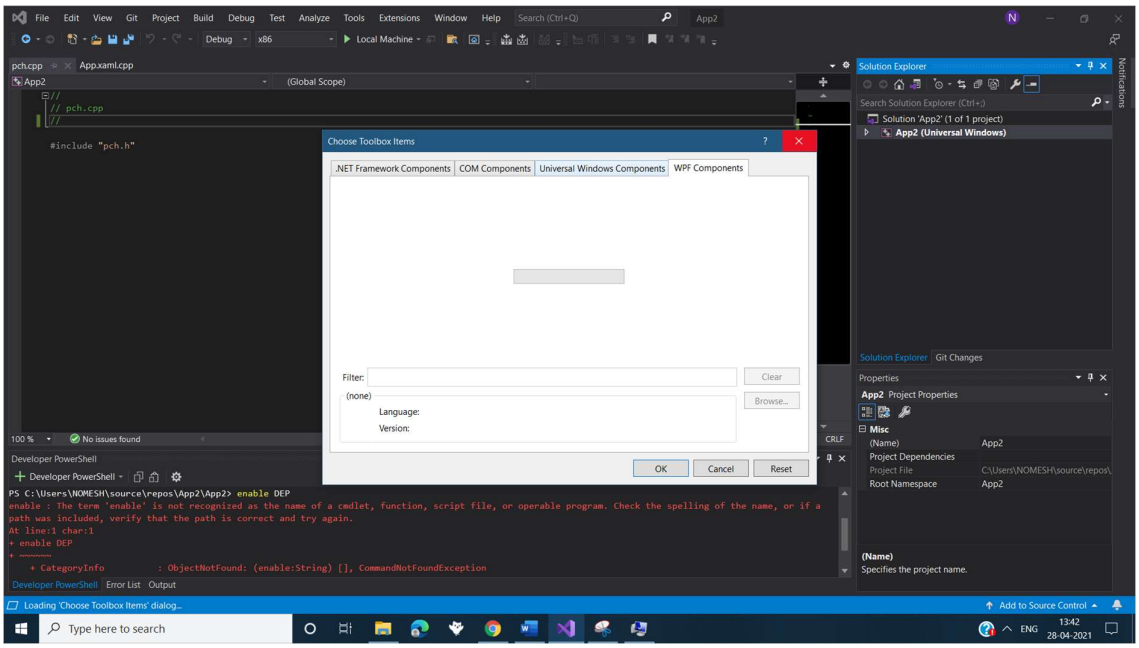

devenv.exe:10096 Properties
Security
Environment
.NET Assemblies
.NET Performance
Strings
Image
Performance
Performance Graph
GPU Graph
Threads
TCP/IP
Image File
Microsoft Visual Studio 2019
Version: 16.9.31205.134
Build Time: Tue Apr 6 02:10:19 2021
Path:
C:\Program Files (x86)\Microsoft Visual Studio\2019\Commu
Explore
Command line:
"C:\Program Files (x86)\Microsoft Visual Studio\2019\Community\Com
Current directory:
C:\Program Files (x86)\Microsoft Visual Studio\2019\Community\Comi
Autostart Location:
n/a
Explore
Parent: explorer.exe(13160)
User: NOMESH004\NOMESH
Started: 13:15:44 28-04-2021 Image: 32-bit
Verify
Bring to Front
Kill Process
Comment
VirusTotal:
Submit
Data Execution Prevention (DEP) Status: Enabled (permanent)
Address Space Load Randomization: Bottom-Up
Control Flow Guard: Disabled
Enterprise Context: N/A
OK
Cancel


App2 Property Pages
Configuration: Active(Debug)
Platform: Active(Win32)
Configuration Manager...
Configuration Properties
General
Debugging
VC++ Directories
C/C++
Linker
General
Input
Manifest File
Debugging
System
Optimization
Embedded IDL
Windows Metadata
Advanced
All Options
Command Line
Manifest Tool
XML Document Generatc
XAML Compiler
Browse Information
Build Events
Custom Build Step
Look for options or switches:
Allow Isolation Yes
Assembly Link Resource
Base Address
CET Shadow Stack Compatible
CLR Image Type Default image type
CLR Thread Attribute
CLR Unmanaged Code Check
Create Hot Patchable Image
Data Execution Prevention (DEP) Yes (/NXCOMPAT)
Debuggable Assembly
Delay Loaded Dlls
Delay Sign
Driver Not Set
Embed Managed Resource File
Enable COMDAT Folding
Data Execution Prevention (DEP)
Marks an executable as having been tested to be compatible with Windows Data Execution Prevention feature. (/NXCOMPAT[:NO])
OK
Cancel
Apply


App2 Property Pages
Configuration: Active(Debug)
Platform: Active(Win32)
Configuration Manager...
Configuration Properties
General
Debugging
VC++ Directories
C/C++
Linker
General
Input
Manifest File
Debugging
System
Optimization
Entry Point
No Entry Point No
Set Checksum No
Base Address
Randomized Base Address Yes (/DYNAMICBASE)
Fixed Base Address
Data Execution Prevention (DEP) Yes (/NXCOMPAT)
Turn Off Assembly Generation No
Unload delay loaded DLL
Nobind delay loaded DLL
Import Library



The visual studio is not responding after I enabled the ALSR



Process Explorer Status