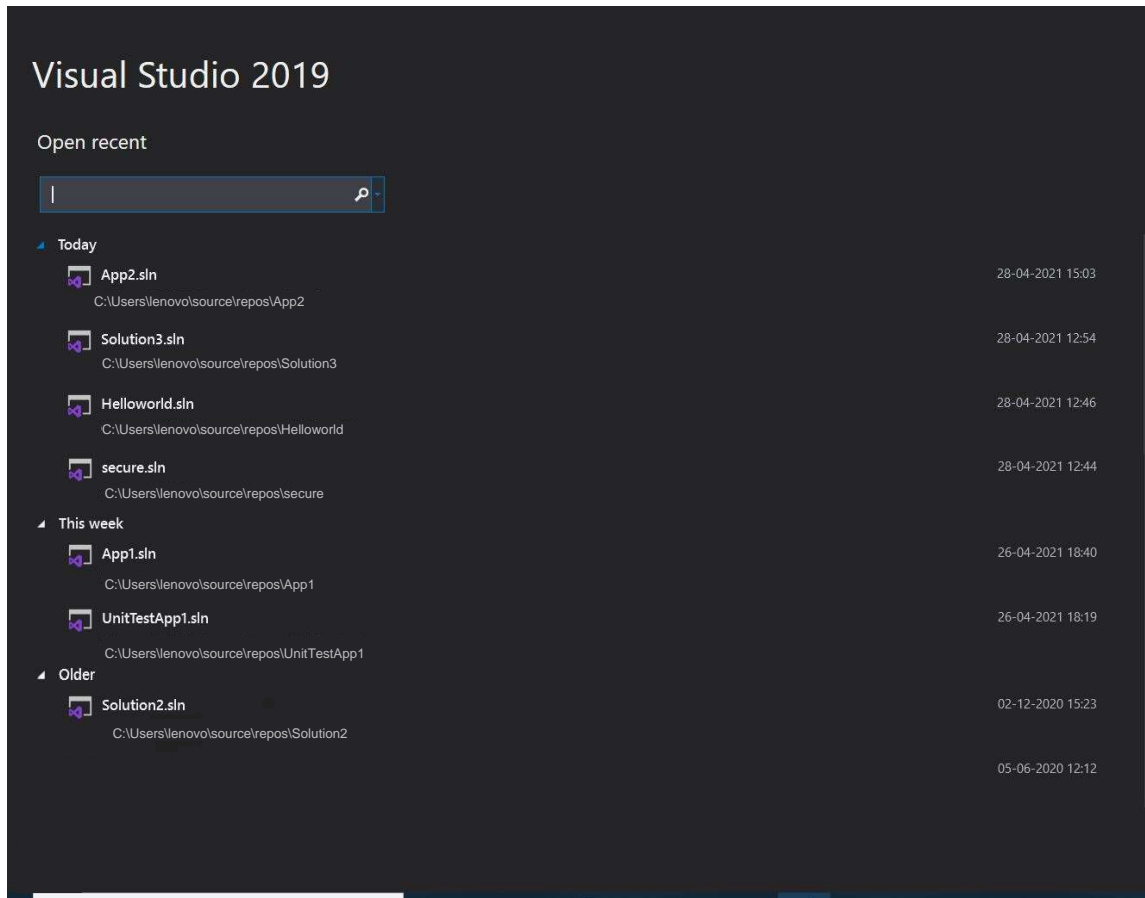


Secure Coding Cse 2010

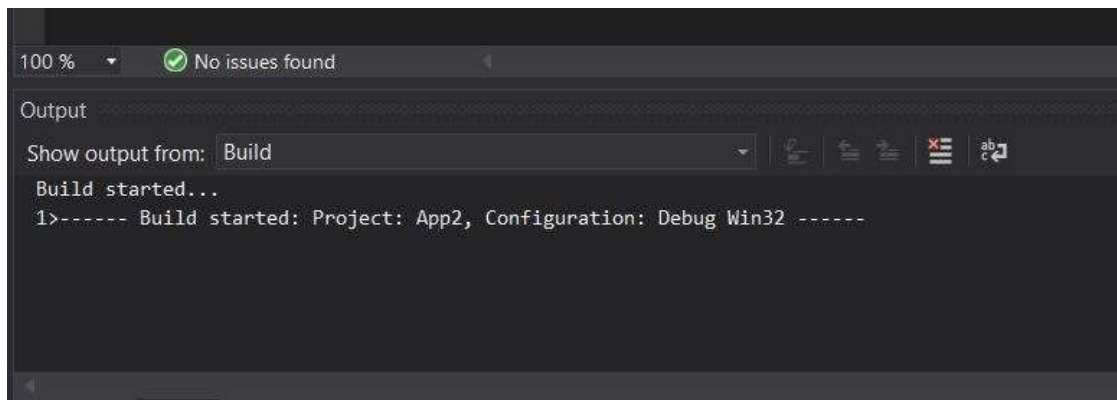
Lab 11

K. Charan teja
18BCN17141

Installing the Visual studio[2019]

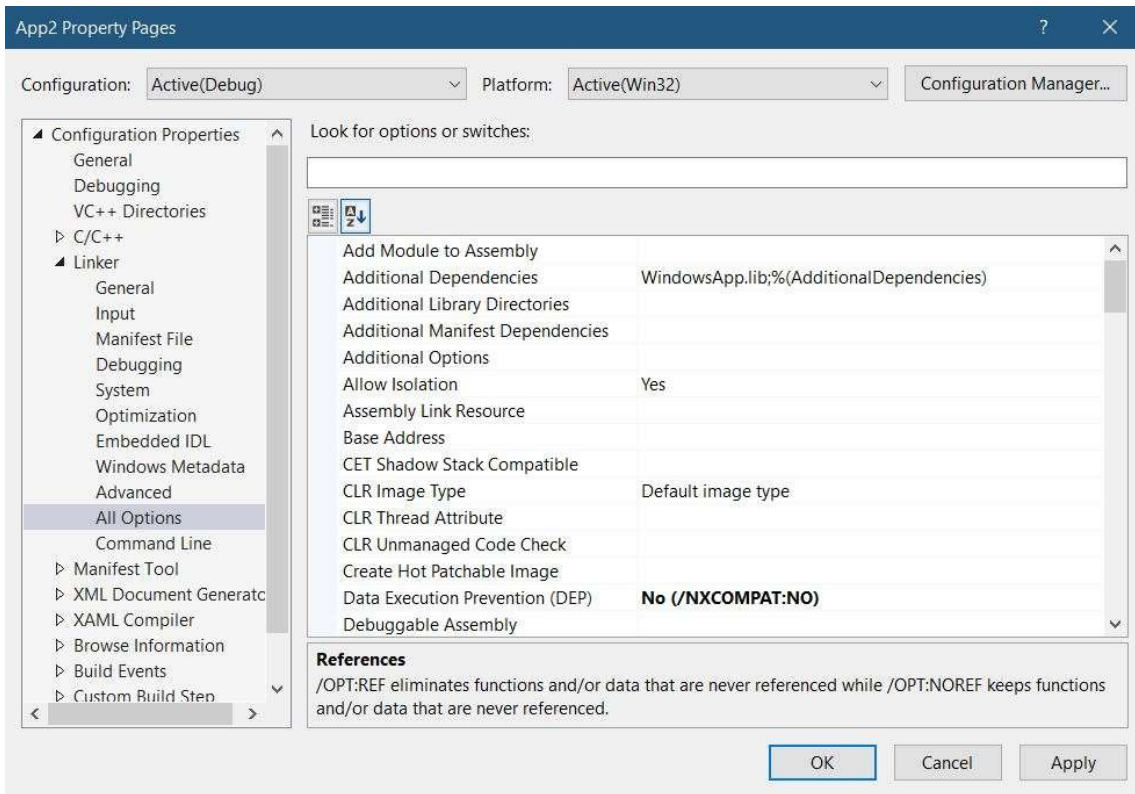


Generating the .exe file



```
Output
Show output from: Build
Build started...
1>----- Build started: Project: App2, Configuration: Debug Win32 -----
1> Creating library C:\Users\leno\source\repos\App2\Debug\App2\lib and object C:\Users\leno\source\repos\App2\Debug\App2\exp
1>App2.vcxproj -> C:\Users\leno\source\repos\App2\Debug\App2\App2.exe
----- Build: 1 succeeded, 0 failed, 0 up-to-date, 0 skipped -----
```

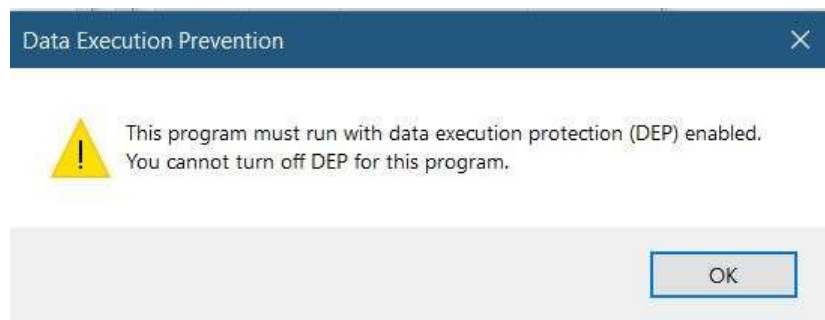
Disabling the DEP and ALSR



Heap Reserve Size	
Ignore All Default Libraries	
Ignore Embedded IDL	No
Ignore Import Library	Yes
Ignore Specific Default Libraries	
Image Has Safe Exception Handlers	YES
Import Library	

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 PlInvoke 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

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\Community\

Explore

Command line:

"C:\Program Files (x86)\Microsoft Visual Studio\2019\Community\Con

Current directory:

C:\Program Files (x86)\Microsoft Visual Studio\2019\Community\Com

Autostart Location:

n/a

Explore

Parent: explorer.exe(13160)

Verify

User: Charan01/NDMSH I

Started: 13:15:44 28-04-2021

Image: 32-bit

Bring to Front

Comment

Kill Process

VirusTotal:

Submit

Data Execution Prevention (DEP) States: Enabled (permanent)

Address Space Layout Randomization: Bottom-Up

Control Flow Guard: Disabled

Enterprise Conted: h/A

DQ

Cancel

Configuration: Active(Debug) Platform: Active(Win32) Configuration Manager...

Configuration Properties: Look for options or switches:

- 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 Generation
 - XAML Compiler
 - Browse Information
 - Build Events
 - Custom Build Step

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: 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

Configuration: Active(Debug) Platform: Active(Win32) Configuration Manager...

Configuration Properties:

- General
- Debugging
- VC++ Directories
- C/C++
- Linker
 - General
 - Input
 - Manifest File
 - Debugging
 - System

Entry Point: No Entry Point: No

Set Checksum: No

Base Address: Yes (/DYNAMICBASE)

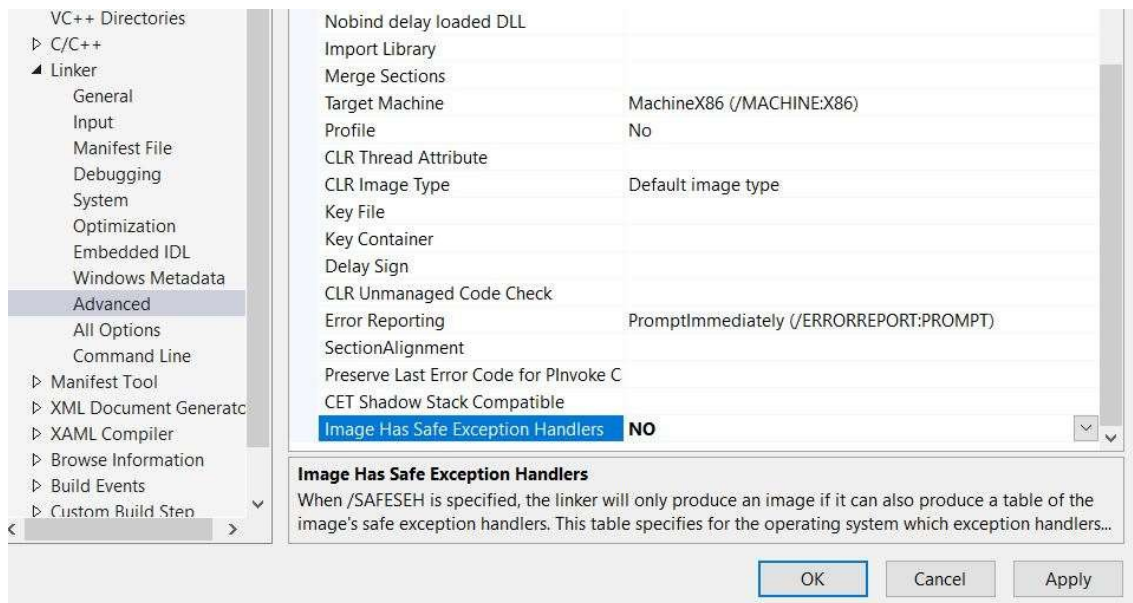
Fixed Base Address

Data Execution Prevention (DEP): Yes (/NXCOMPAT)

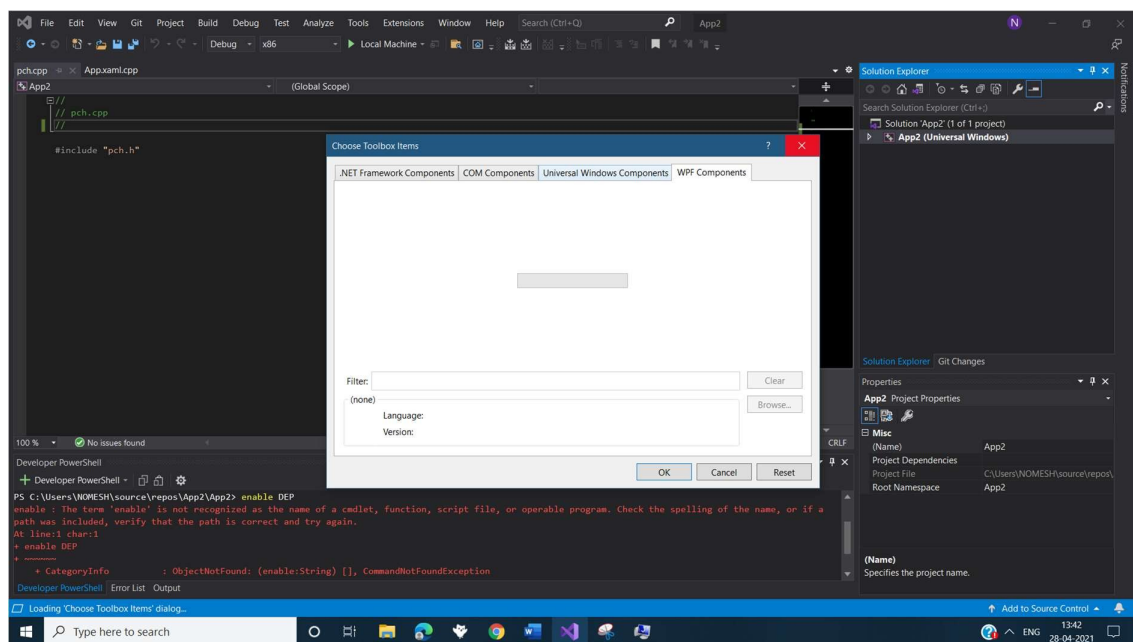
Turn Off Assembly Generation: No

Unload delay loaded DLL: No bind delay loaded DLL

Import Library



The visual studio is not responding after I enabled the ALSR



Process Explorer Status

 chrome.exe		24,204 K	42,004 K	7076 Google Chrome	Google LLC	Enabled (permane... ASLR
 chrome.exe		22,200 K	44,564 K	17136 Google Chrome	Google LLC	Enabled (permane... ASLR
 chrome.exe		17,856 K	23,164 K	2152 Google Chrome	Google LLC	Enabled (permane... ASLR
 devenv.exe	1.30	2,46,852 K	3,68,992 K	10096 Microsoft Visual Studio 2019	Microsoft Corporation	Enabled (permane... ASLR
 PerfWatson2.exe	< 0.01	48,792 K	69,516 K	11916 PerfWatson2.exe	Microsoft Corporation	Enabled (permane... ASLR
 Microsoft.ServiceHub.Contr		35,140 K	50,676 K	13156 Microsoft.ServiceHub.Control	Microsoft	Enabled (permane... ASLR