

VIT-AP UNIVERSITY

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LAB 11

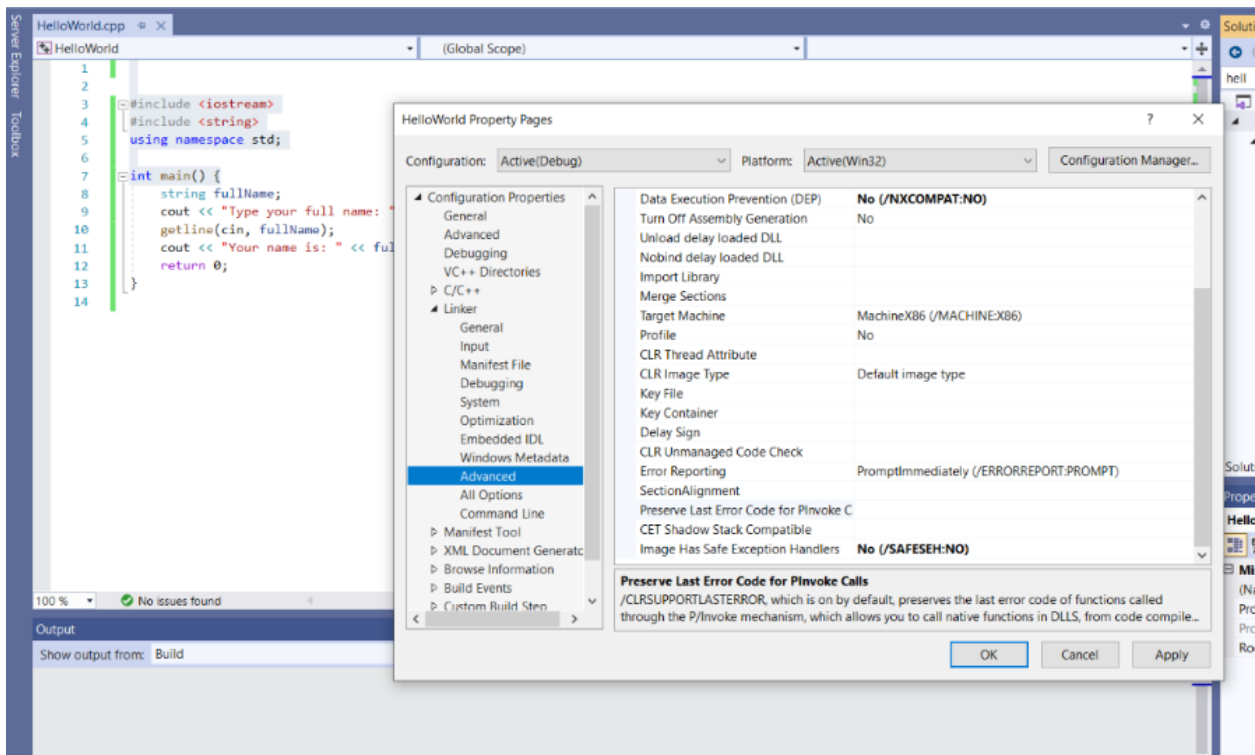
Topic : Creating Secure and Safe Executable

Code :

```
#include<iostream>
#include<string>
using namespace std;

int main(){
    string fullName;
    cout<<"Type your full name:";
    getline(cin,fullName);
    cout<<"Your name is:"<<fullName;
    return 0;
}
```

We disable DEP and SEH and run it to show in the process explorer.

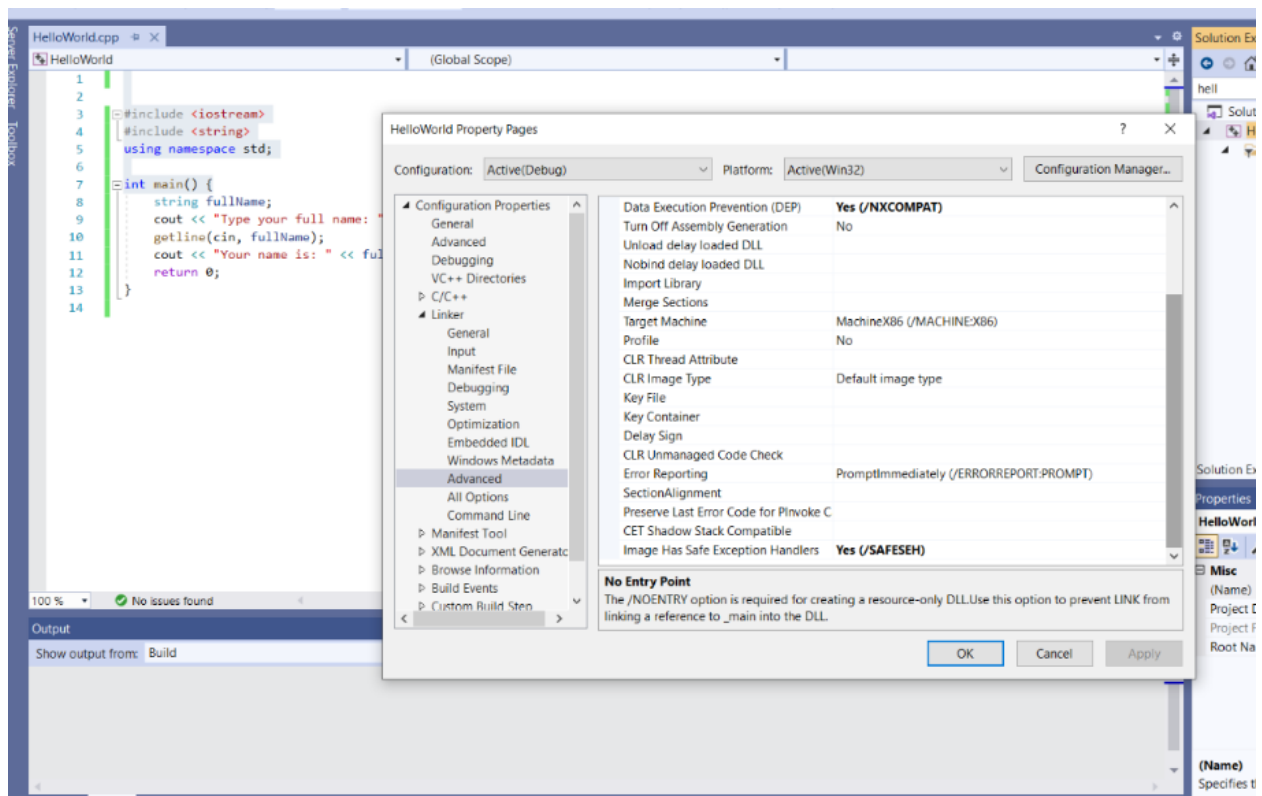


Disabling ASLR

Randomized Base Address	No (/DYNAMICBASE:NO)
Fixed Base Address	
Data Execution Prevention (DEP)	No (/NXCOMPAT:NO)

Microsoft.ServiceHub.Contr...	4.472 K	6908 Microsoft.ServiceHub.Control...	Microsoft	Enabled (permane...	ASLR
PerfWatson2.exe	2.192 K	10952 PerfWatson2.exe	Microsoft Corporation	Enabled (permane...	ASLR
vcpkgssrv.exe	7.456 K	8004 Microsoft (R) Visual C++ Pack...	Microsoft Corporation	Enabled (permane...	
MSBuild.exe	0.636 K	5236 MSBuild.exe	Microsoft Corporation	Enabled (permane...	ASLR
conhost.exe	0.812 K	15288 Console Window Host	Microsoft Corporation	Enabled (permane...	ASLR
VsDebugConsole.exe	5.628 K	664 Visual Studio Debugger Con...	Microsoft Corporation	Enabled (permane...	ASLR
conhost.exe	6.060 K	4092 Console Window Host	Microsoft Corporation	Enabled (permane...	ASLR
HelloWorld.exe	4.116 K	15808		Disabled (permane...	
vcpkgssrv.exe	3.380 K	10280 Microsoft (R) Visual C++ Pack...	Microsoft Corporation	Enabled (permane...	
msvsmon.exe	7.848 K	16172 Visual Studio 2019 Remote D...	Microsoft Corporation	Enabled (permane...	ASLR
ScriptedSandbox64.exe	5.096 K	4228 ScriptedSandbox64.exe	Microsoft Corporation	Enabled (permane...	ASLR
cmd.exe	4.248 K	1524 Windows Command Process...	Microsoft Corporation	Enabled (permane...	ASLR
conhost.exe	6.252 K	2452 Console Window Host	Microsoft Corporation	Enabled (permane...	ASLR
WinRAR.exe	2.092 K	8944 WinRAR archiver	Alexander Roshal	Enabled (permane...	ASLR
proccp64.exe	1.172 K	8524 Sysinternals Process Explorer	Sysinternals - www.sysinter...	Enabled (permane...	ASLR
GoogleCrashHandler.exe	1.484 K	6828		n/a	n/a
GoogleCrashHandler64.exe	276 K	8624		n/a	n/a
AsusOSD.exe	7.048 K	14076		n/a	n/a
Teams.exe	0.944 K	16116 Microsoft Teams	Microsoft Corporation	Enabled (permane...	ASLR
Teams.exe	8.196 K	16312 Microsoft Teams	Microsoft Corporation	Enabled (permane...	ASLR
Teams.exe	2.892 K	16352 Microsoft Teams	Microsoft Corporation	Enabled (permane...	ASLR

Now we Enable DEP, SEH and ASLR and run the program



Randomized Base Address

Yes (/DYNAMICBASE)

Fixed Base Address

Data Execution Prevention (DEP)

Yes (/NXCOMPAT)

