SECURE CODING LAB -11

Sai Viswas
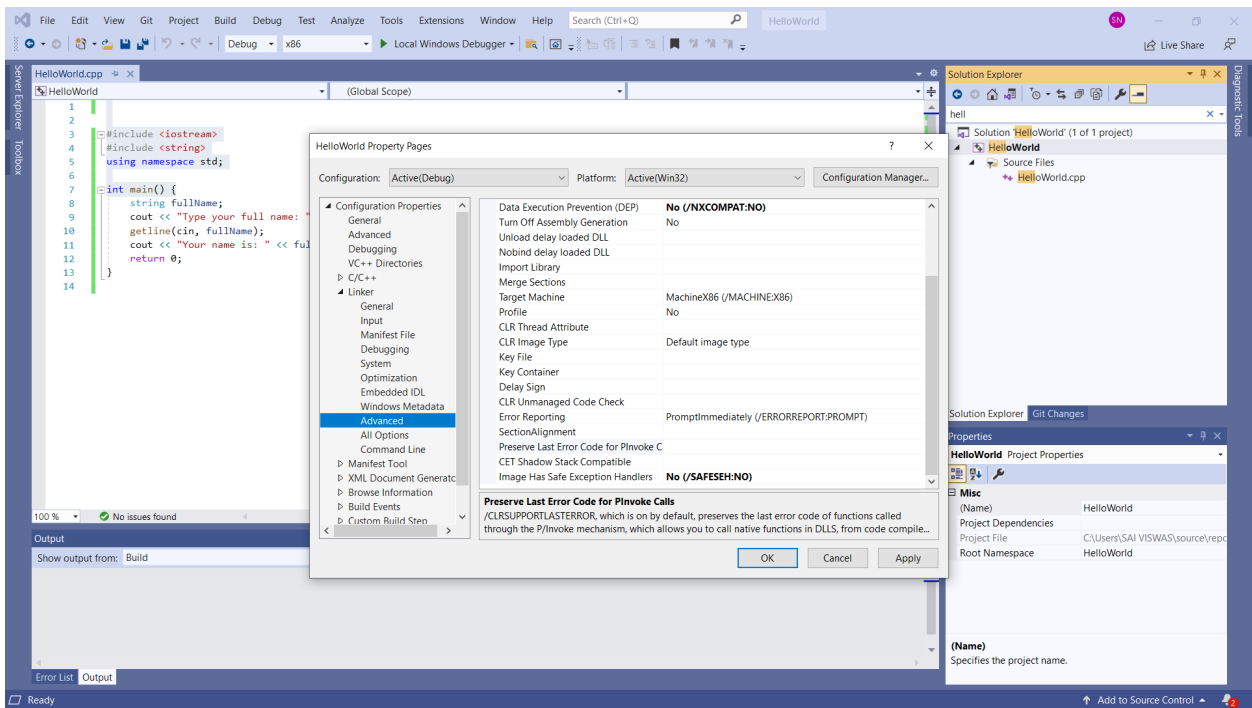
18BCD7124

CODE:-

```cpp
#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;
}
```

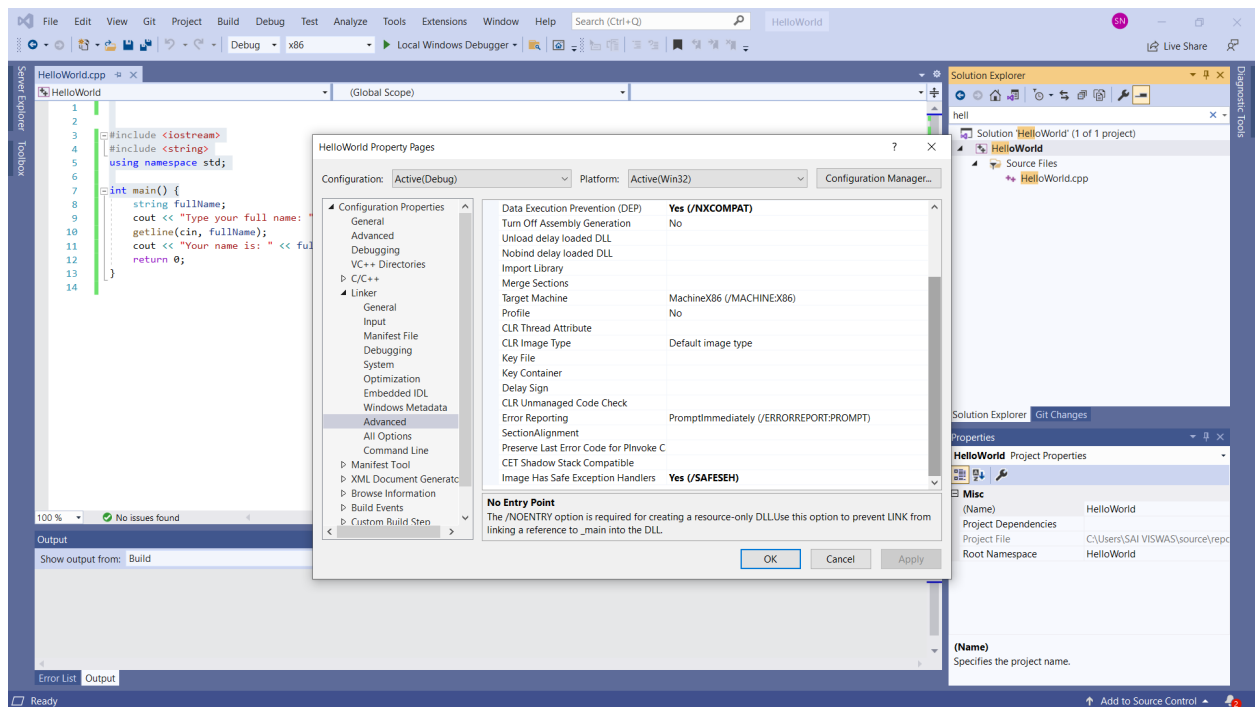# We disable DEP and SEH and run it to show in the process explorer.

Disabling ASLR:-

Process Explorer - Sysinternals: www.sysinternals.com [LAPTOP-FA3S78CA\SAI VISWAS]

File   Options   View   Process   Find   Users   Help

Process	ing Set	PID	Description	Company Name	DEP	ASLR
WhatsApp.exe	5,972 K	7384	WhatsApp	WhatsApp	Enabled (permane...	ASLR
WhatsApp.exe	7,352 K	5024	WhatsApp	WhatsApp	Enabled (permane...	ASLR
WhatsApp.exe	7,352 K	5024	WhatsApp	WhatsApp	Enabled (permane...	ASLR
devenv.exe	3,100 K	3028	Microsoft Visual Studio 2019	Microsoft Corporation	Enabled (permane...	ASLR
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
vcpkgsrv.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 (perman...	
vcpkgsrv.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
procexp64.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
Teams.exe	4,968 K	13672	Microsoft Teams	Microsoft Corporation	Enabled (permane...	ASLR
Teams.exe	2,220 K	15628	Microsoft Teams	Microsoft Corporation	Enabled (permane...	ASLR
Teams.exe	2,244 K	15844	Microsoft Teams	Microsoft Corporation	Enabled (permane...	ASLR
Teams.exe	4,896 K	5340	Microsoft Teams	Microsoft Corporation	Enabled (permane...	ASLR
Teams.exe						

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