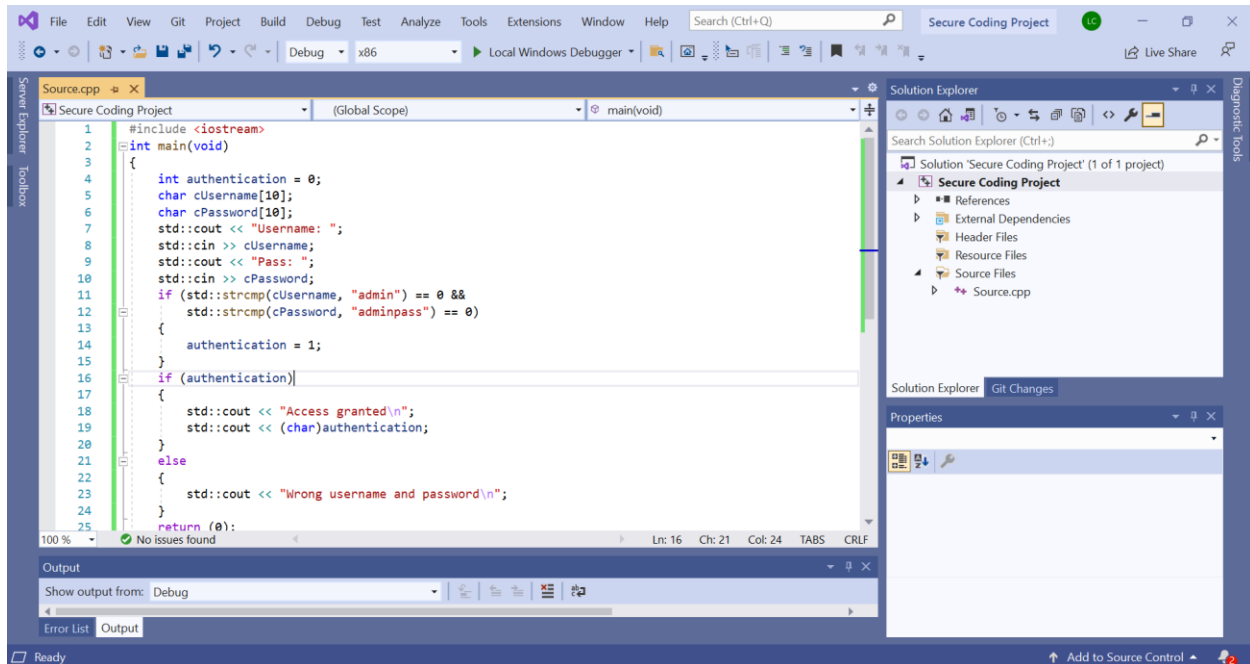


Name: Pavana Lakshmi Durga Chikkala

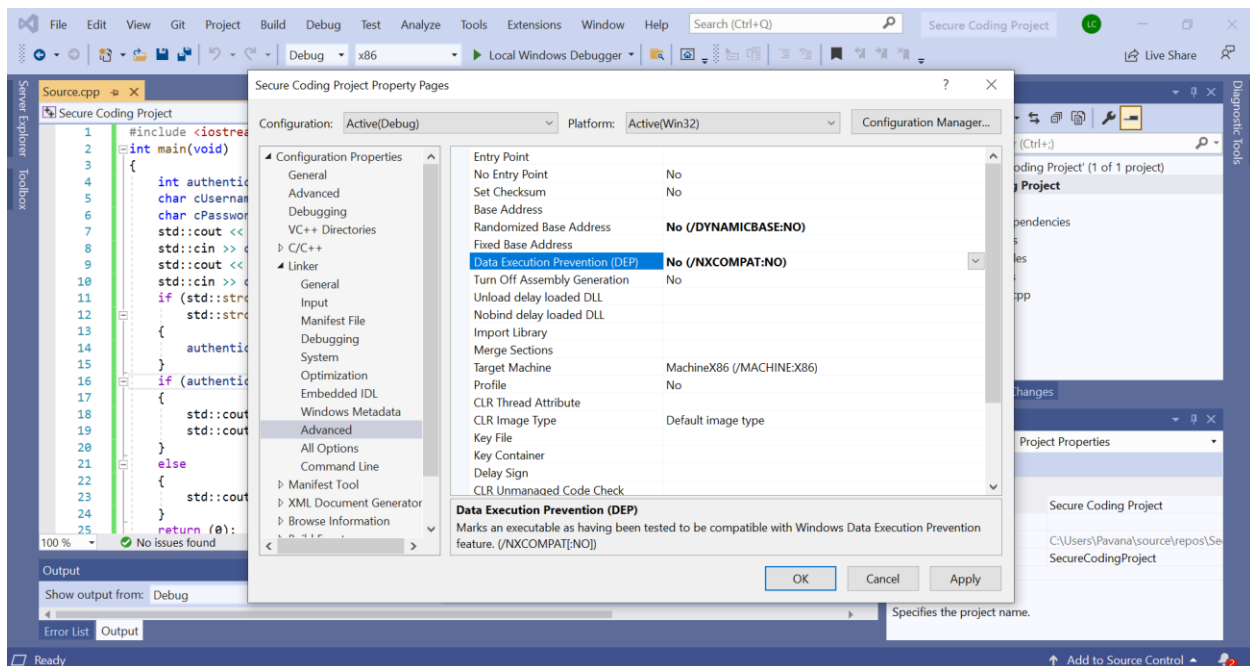
Reg no.: 19BCN7090

Slot: L23+24

Building an executable code.



Disable DEP, ASLR and SEH



Enabling DEP and ASLR in process explorer.

Select Columns

Process Network Process Disk Process Memory
Process GPU Handle DLL NET Status Bar
Process Image Process Performance Process I/O

Select the columns that will appear on the Process view of Process Explorer.

☒ Process Name ☐ Window Title
☒ PID (Process Identifier) ☐ Window Status
☐ User Name ☐ Session
☒ Description ☐ Command Line
☒ Company Name ☐ Comment
☐ Verified Signer ☐ Autostart Location
☐ Version ☐ VirusTotal
☐ Image Path ☒ DEP Status
☐ Image Type (64 vs 32-bit) ☐ Integrity Level
☐ Package Name ☐ Virtualized
☐ DPI Awareness ☒ ASLR Enabled
☐ Protection ☐ UI Access
☐ Control Flow Guard ☐ Enterprise Context

OK Cancel

CPU	Private Bytes	Working Set	PID	Description	Company Name	DEP	ASLR
0.01	58,624 K	49,044 K	13080	Flow	Conexant Systems, Inc	Enabled (permane...	ASLR
0.01	10,252 K	30,128 K	19300	McAfee	McAfee, LLC	Enabled (permane...	ASLR
0.01	1,79,640 K	1,26,352 K	16808	Microsoft Teams	Microsoft Corporation	Enabled (permane...	ASLR
0.29	1,87,052 K	1,44,324 K	9200	Microsoft Teams	Microsoft Corporation	Enabled (permane...	ASLR
0.01	16,056 K	42,628 K	16604	Microsoft Teams	Microsoft Corporation	Enabled (permane...	ASLR
0.32	3,22,528 K	38,112 K	18152	Microsoft Teams	Microsoft Corporation	Enabled (permane...	ASLR
0.01	11,588 K	2,78,260 K	17668	Microsoft Teams	Microsoft Corporation	Enabled (permane...	ASLR
0.01	2,04,252 K	54,604 K	16304	Microsoft Teams	Microsoft Corporation	Enabled (permane...	ASLR
0.01	2,04,252 K	2,08,768 K	7316	Microsoft Teams	Microsoft Corporation	Enabled (permane...	ASLR
0.01	1,36,880 K	1,57,612 K	10292	Microsoft Teams	Microsoft Corporation	Enabled (permane...	ASLR
0.01	23,168 K	76,368 K	13288	Microsoft Teams	Microsoft Corporation	Enabled (permane...	ASLR
0.92	1,61,476 K	1,67,384 K	22212	Visual Studio Installer	Microsoft	Enabled (permane...	ASLR
1.25	307,028 K	3,77,996 K	5516	Microsoft Visual Studio 2019	Microsoft Corporation	Enabled (permane...	ASLR
0.01	39,472 K	56,212 K	12788	PerfWatson2.exe	Microsoft Corporation	Enabled (permane...	ASLR
0.01	48,336 K	50,856 K	9408	Microsoft ServiceHub Control...	Microsoft	Enabled (permane...	ASLR
0.01	65,016 K	67,888 K	19872	ServiceHub.VSDetouredHost...	Microsoft	Enabled (permane...	ASLR
0.01	63,632 K	61,824 K	21964	ServiceHub.ThreadedWaitDi...	Microsoft	Enabled (permane...	ASLR
0.01	71,396 K	58,284 K	4928	ServiceHub.IdentityHost.exe	Microsoft	Enabled (permane...	ASLR
0.01	54,340 K	66,572 K	17308	ServiceHub.SettingsHost.exe	Microsoft	Enabled (permane...	ASLR
0.01	89,840 K	49,108 K	16708	ServiceHub.Host.CLR.x86	Microsoft	Enabled (permane...	ASLR
0.28	89,840 K	94,744 K	19060	ServiceHub.DataWarehouse...	Microsoft	Enabled (permane...	ASLR
0.01	78,404 K	79,132 K	15120	ServiceHub.Host.CLR.x86	Microsoft	Enabled (permane...	ASLR
0.01	59,424 K	70,060 K	7600	ServiceHub.TestWindowStor...	Microsoft	Enabled (permane...	ASLR
0.01	30,904 K	52,148 K	17084	MSBuild.exe	Microsoft Corporation	Enabled (permane...	ASLR
0.01	6,324 K	5,300 K	15912	Console Window Host	Microsoft Corporation	Enabled (permane...	ASLR
0.01	13,684 K	16,824 K	23392	Microsoft (R) Visual C++ Pac...	Microsoft Corporation	Enabled (permane...	ASLR
0.01	43,956 K	19,616 K	22312	Microsoft (R) Visual C++ Pac...	Microsoft Corporation	Enabled (permane...	ASLR
0.01	1,132 K	5,992 K	24696	Visual Studio Debugger Cons...	Microsoft Corporation	Enabled (permane...	ASLR
0.01	7,076 K	16,504 K	23544	Console Window Host	Microsoft Corporation	Enabled (permane...	ASLR
0.01	696 K	4,372 K	24280	Secure Coding Project.exe	Secure Coding Project	Disabled (permane...	ASLR
0.01	9,712 K	19,640 K	21592	Visual Studio 2019 Remote ...	Microsoft Corporation	Enabled (permane...	ASLR
0.97	95,560 K	1,24,272 K	24768	ScriptedSandbox64.exe	Microsoft Corporation	Enabled (permane...	ASLR
0.78	50,440 K	68,492 K	20980	Sysinternals Process Explorer	Sysinternals - www.sysinter...	Enabled (permane...	ASLR
0.01	16,132 K	17,492 K	17288	Microsoft® Program Database	Microsoft Corporation	Enabled (permane...	ASLR

CPU Usage: 6.69% Commit Charge: 80.64% Processes: 276 Physical Usage: 84.69%

DEP Status of Secure Coding Project.exe shows disabled.

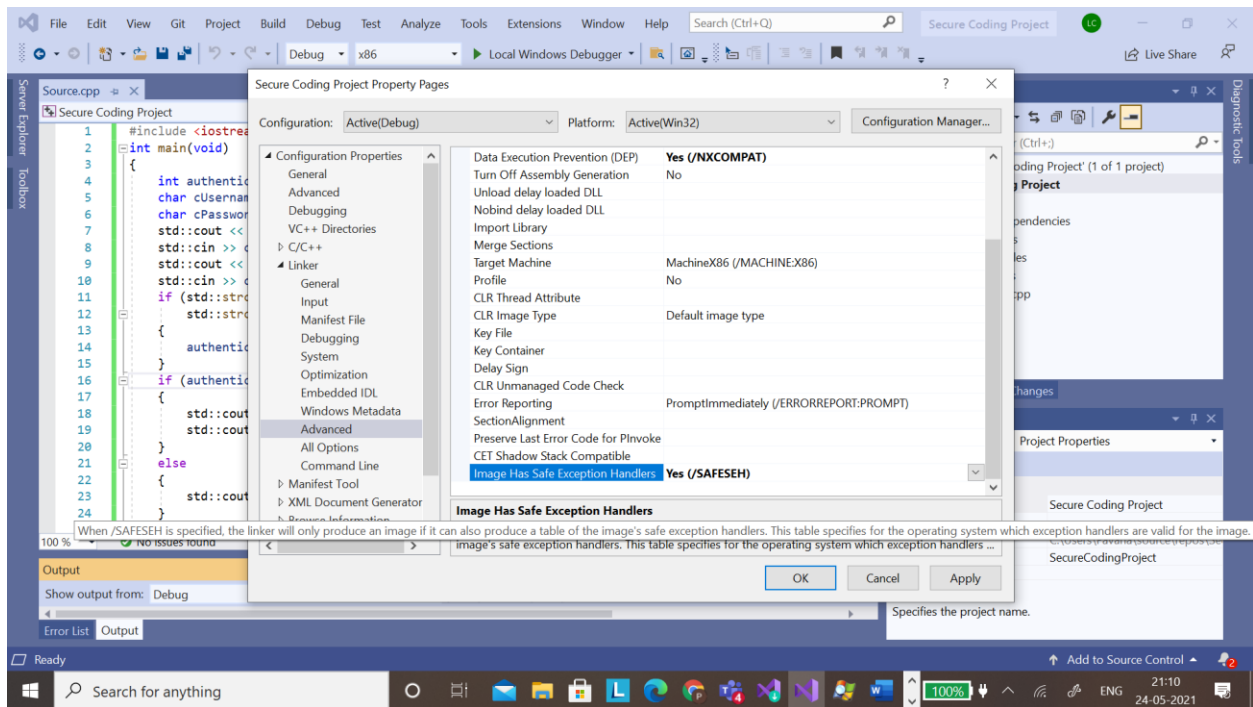
Process Explorer - Sysinternals: www.sysinternals.com [DESKTOP-U6VV86T\Pavana] (Administrator)

File Options View Process Find Users Help

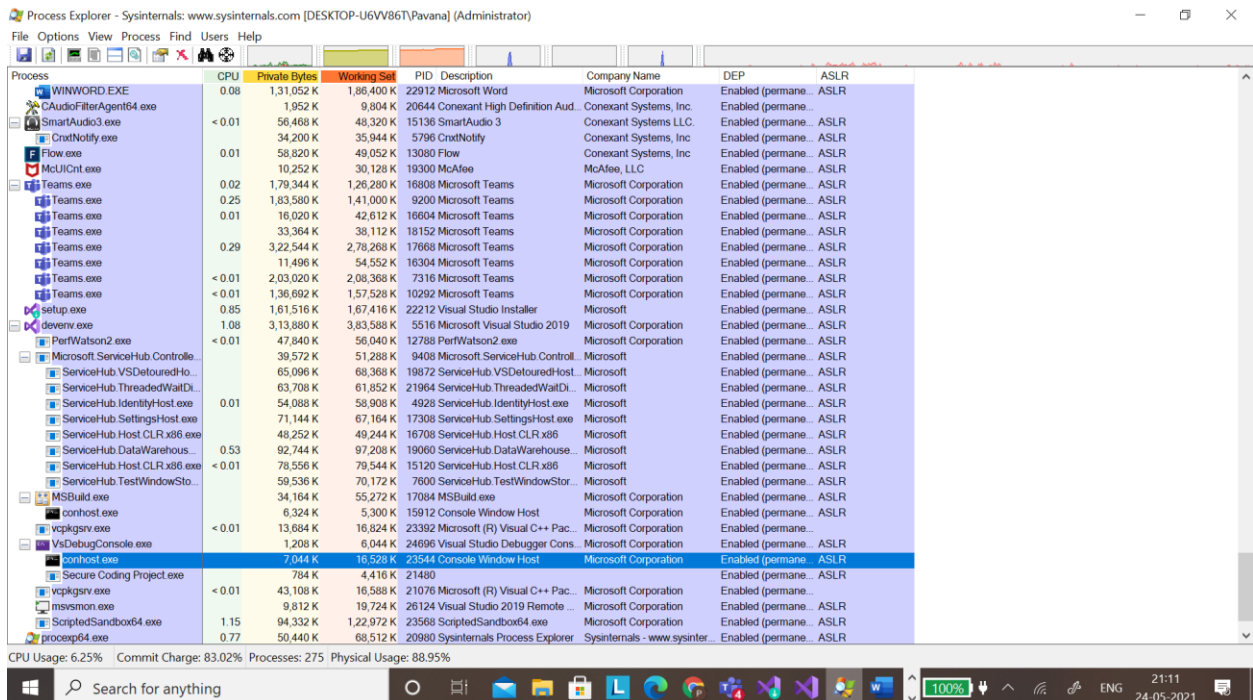
Process	CPU	Private Bytes	Working Set	PID	Description	Company Name	DEP	ASLR
Flow.exe	0.01	58,624 K	49,044 K	13080	Flow	Conexant Systems, Inc	Enabled (permane...	ASLR
McUICnt.exe	0.01	10,252 K	30,128 K	19300	McAfee	McAfee, LLC	Enabled (permane...	ASLR
Teams.exe	0.01	1,79,640 K	1,26,352 K	16808	Microsoft Teams	Microsoft Corporation	Enabled (permane...	ASLR
Teams.exe	0.29	1,87,052 K	1,44,324 K	9200	Microsoft Teams	Microsoft Corporation	Enabled (permane...	ASLR
Teams.exe	0.01	16,056 K	42,628 K	16604	Microsoft Teams	Microsoft Corporation	Enabled (permane...	ASLR
Teams.exe	0.32	3,22,528 K	38,112 K	18152	Microsoft Teams	Microsoft Corporation	Enabled (permane...	ASLR
Teams.exe	0.01	11,588 K	2,78,260 K	17668	Microsoft Teams	Microsoft Corporation	Enabled (permane...	ASLR
Teams.exe	0.01	2,04,252 K	54,604 K	16304	Microsoft Teams	Microsoft Corporation	Enabled (permane...	ASLR
Teams.exe	0.01	2,04,252 K	2,08,768 K	7316	Microsoft Teams	Microsoft Corporation	Enabled (permane...	ASLR
Teams.exe	0.01	1,36,880 K	1,57,612 K	10292	Microsoft Teams	Microsoft Corporation	Enabled (permane...	ASLR
Teams.exe	0.01	23,168 K	76,368 K	13288	Microsoft Teams	Microsoft Corporation	Enabled (permane...	ASLR
setup.exe	0.92	1,61,476 K	1,67,384 K	22212	Visual Studio Installer	Microsoft	Enabled (permane...	ASLR
devcmr.exe	1.25	307,028 K	3,77,996 K	5516	Microsoft Visual Studio 2019	Microsoft Corporation	Enabled (permane...	ASLR
PerfWatson2.exe	0.01	39,472 K	56,212 K	12788	PerfWatson2.exe	Microsoft Corporation	Enabled (permane...	ASLR
Microsoft ServiceHub Control...	0.01	48,336 K	50,856 K	9408	Microsoft ServiceHub Control...	Microsoft	Enabled (permane...	ASLR
ServiceHub.VSDetouredHo...	0.01	65,016 K	67,888 K	19872	ServiceHub.VSDetouredHost...	Microsoft	Enabled (permane...	ASLR
ServiceHub.ThreadedWaitDi...	0.01	63,632 K	61,824 K	21964	ServiceHub.ThreadedWaitDi...	Microsoft	Enabled (permane...	ASLR
ServiceHub.IdentityHost.exe	0.01	71,396 K	58,284 K	4928	ServiceHub.IdentityHost.exe	Microsoft	Enabled (permane...	ASLR
ServiceHub.SettingsHost.exe	0.01	54,340 K	66,572 K	17308	ServiceHub.SettingsHost.exe	Microsoft	Enabled (permane...	ASLR
ServiceHub.Host.CLR.x86	0.01	89,840 K	49,108 K	16708	ServiceHub.Host.CLR.x86	Microsoft	Enabled (permane...	ASLR
ServiceHub.DataWarehou...	0.28	89,840 K	94,744 K	19060	ServiceHub.DataWarehouse...	Microsoft	Enabled (permane...	ASLR
ServiceHub.Host.CLR.x86	0.01	78,404 K	79,132 K	15120	ServiceHub.Host.CLR.x86	Microsoft	Enabled (permane...	ASLR
ServiceHub.TestWindowSto...	0.01	59,424 K	70,060 K	7600	ServiceHub.TestWindowStor...	Microsoft	Enabled (permane...	ASLR
MSBuild.exe	0.01	30,904 K	52,148 K	17084	MSBuild.exe	Microsoft Corporation	Enabled (permane...	ASLR
conhost.exe	0.01	6,324 K	5,300 K	15912	Console Window Host	Microsoft Corporation	Enabled (permane...	ASLR
vcpgsrv.exe	0.01	13,684 K	16,824 K	23392	Microsoft (R) Visual C++ Pac...	Microsoft Corporation	Enabled (permane...	ASLR
vcpgsrv.exe	0.01	43,956 K	19,616 K	22312	Microsoft (R) Visual C++ Pac...	Microsoft Corporation	Enabled (permane...	ASLR
VsDebugConsole.exe	0.01	1,132 K	5,992 K	24696	Visual Studio Debugger Cons...	Microsoft Corporation	Enabled (permane...	ASLR
conhost.exe	0.01	7,076 K	16,504 K	23544	Console Window Host	Microsoft Corporation	Enabled (permane...	ASLR
Secure Coding Project.exe	0.01	696 K	4,372 K	24280	Secure Coding Project.exe	Secure Coding Project	Disabled (permane...	ASLR
msvsm.exe	0.01	9,712 K	19,640 K	21592	Visual Studio 2019 Remote ...	Microsoft Corporation	Enabled (permane...	ASLR
ScriptedSandbox64.exe	0.97	95,560 K	1,24,272 K	24768	ScriptedSandbox64.exe	Microsoft Corporation	Enabled (permane...	ASLR
procepx64.exe	0.78	50,440 K	68,492 K	20980	Sysinternals Process Explorer	Sysinternals - www.sysinter...	Enabled (permane...	ASLR
mspdbsrv.exe	0.01	16,132 K	17,492 K	17288	Microsoft® Program Database	Microsoft Corporation	Enabled (permane...	ASLR

CPU Usage: 6.10% Commit Charge: 80.59% Processes: 276 Physical Usage: 84.80%

Now enable DEP, ASLR and SEH in Visual Studio.



Now, the DEP status of Secure Coding Project.exe shows enabled.



By executing the code at the end, console opens up.

