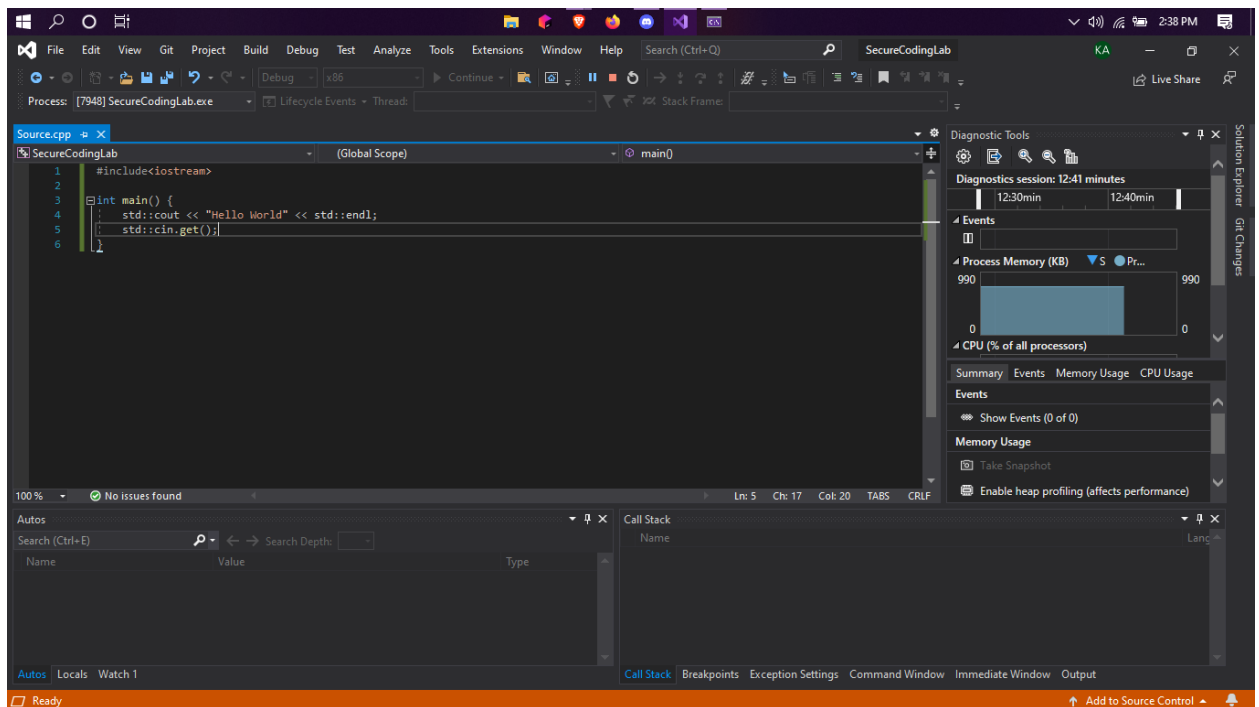
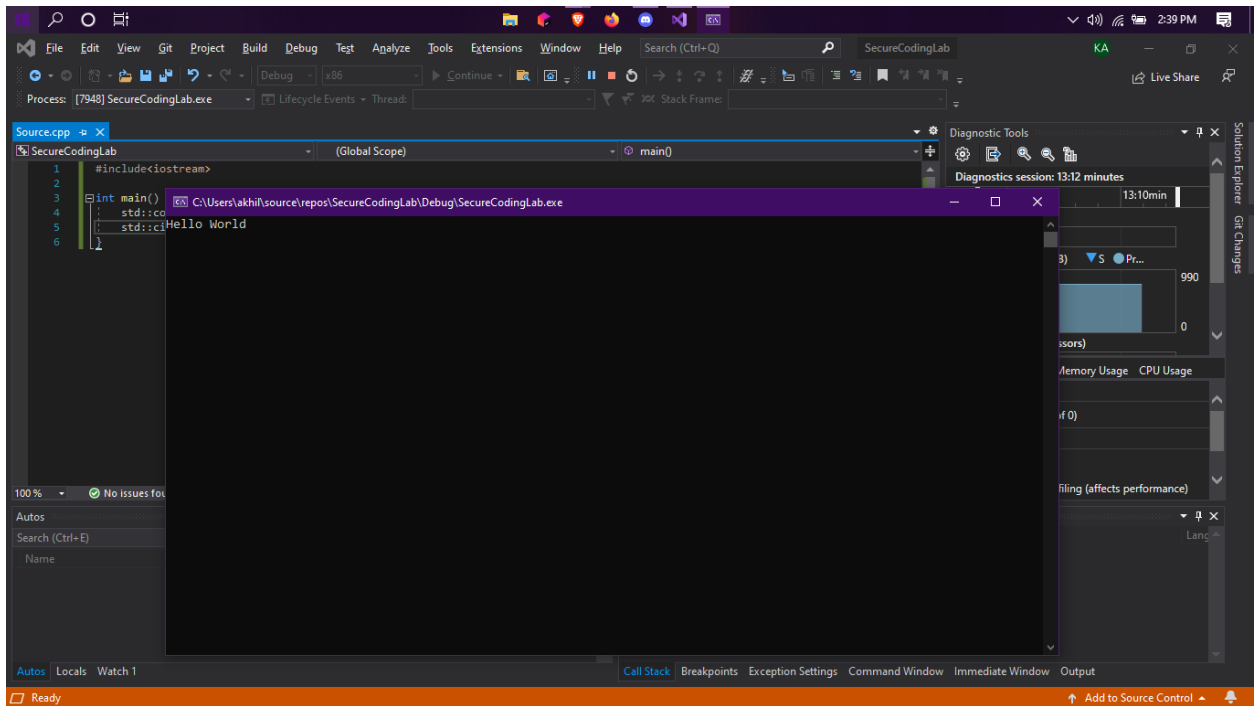


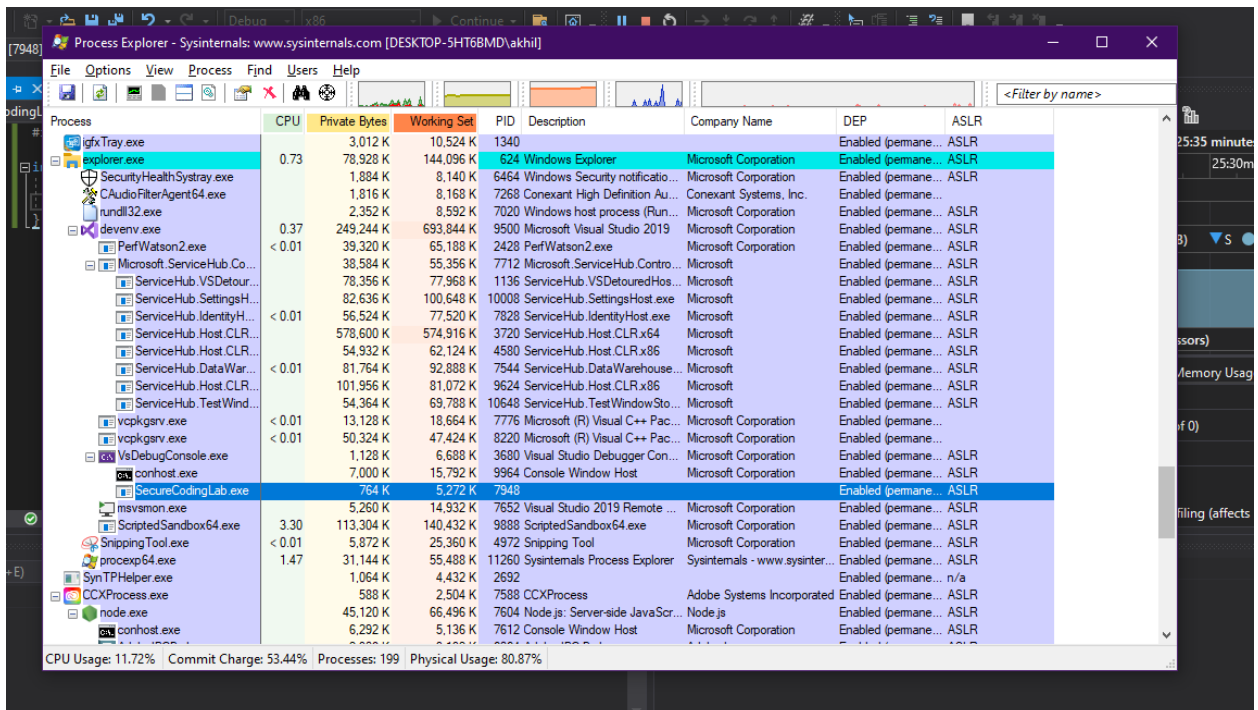
NAME: A KRISHNA AKHIL  
REG NO: 18BCE7076  
SECURE CODING LAB: L39+L40  
*Guided By: Prof. Sibi Chakravarthy*  
**[LAB 11]**

1. Download and install Visual Studio(recent edition)  
-Write a C++ code to build an executable file and run the same

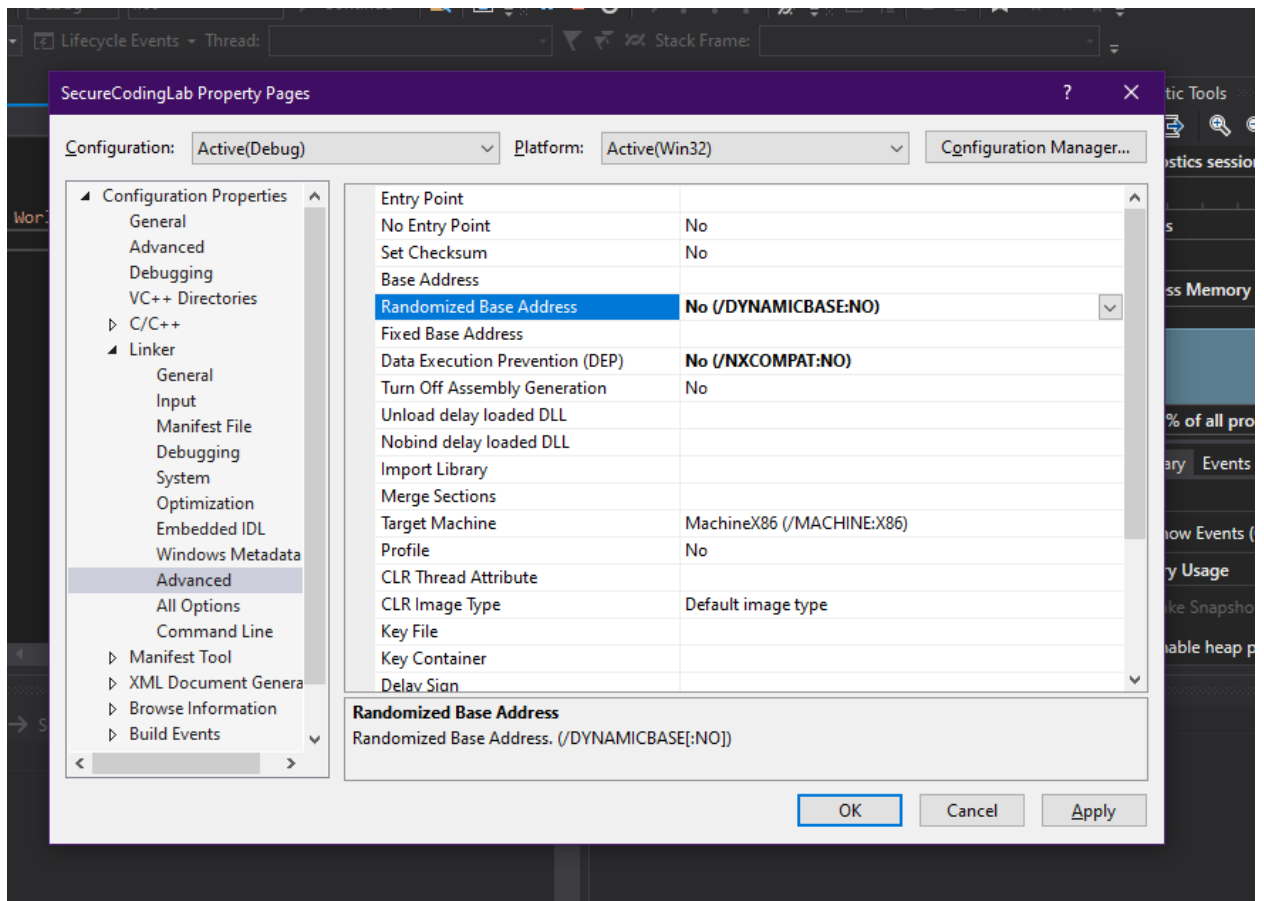




## Download Process Explorer and verify DEP and ASLR status



Disable software DEP, ASLR, and SEH in Visual Studio and rebuild the same executable



Process Explorer - Sysinternals: www.sysinternals.com [DESKTOP-5HT6BMD\akhi]

Process	CPU	Private Bytes	Working Set	PID	Description	Company Name	DEP	ASLR
CAudioFilterAgent64.exe		1,816 K	8,036 K	7268	Conexant High Definition Au...	Conexant Systems, Inc.	Enabled (permane...	
rundll32.exe		2,352 K	8,544 K	7020	Windows host process (Run...	Microsoft Corporation	Enabled (permane...	ASLR
devenv.exe	1.09	244,688 K	691,660 K	9500	Microsoft Visual Studio 2019	Microsoft Corporation	Enabled (permane...	ASLR
PerfWatson2.exe	< 0.01	39,496 K	65,168 K	2428	PerfWatson2.exe	Microsoft Corporation	Enabled (permane...	ASLR
Microsoft.ServiceHub.Co...		38,712 K	55,480 K	7712	Microsoft.ServiceHub.Contro...	Microsoft	Enabled (permane...	ASLR
ServiceHub.VSDetour...		78,572 K	78,100 K	1136	ServiceHub.VSDetouredHos...	Microsoft	Enabled (permane...	ASLR
ServiceHub.SettingsH...		82,220 K	100,148 K	10008	ServiceHub.SettingsHost.exe	Microsoft	Enabled (permane...	ASLR
ServiceHub.IdentityH...	< 0.01	56,168 K	77,084 K	7828	ServiceHub.IdentityHost.exe	Microsoft	Enabled (permane...	ASLR
ServiceHub.Host.CLR...		578,276 K	574,236 K	3720	ServiceHub.Host.CLR.x64	Microsoft	Enabled (permane...	ASLR
ServiceHub.Host.CLR...		54,952 K	62,192 K	4580	ServiceHub.Host.CLR.x86	Microsoft	Enabled (permane...	ASLR
ServiceHub.DataWar...	2.19	86,264 K	97,508 K	7544	ServiceHub.DataWarehouse...	Microsoft	Enabled (permane...	ASLR
ServiceHub.Host.CLR...		101,888 K	81,052 K	9624	ServiceHub.Host.CLR.x86	Microsoft	Enabled (permane...	ASLR
ServiceHub.TestWind...		54,424 K	69,824 K	10648	ServiceHub.TestWindowSto...	Microsoft	Enabled (permane...	ASLR
vcpgkgrv.exe	< 0.01	13,128 K	18,664 K	7776	Microsoft (R) Visual C++ Pac...	Microsoft Corporation	Enabled (permane...	
VsDebugConsole.exe		1,144 K	6,732 K	3680	Visual Studio Debugger Con...	Microsoft Corporation	Enabled (permane...	ASLR
conhost.exe		7,032 K	15,832 K	9964	Console Window Host	Microsoft Corporation	Enabled (permane...	ASLR
SecureCodingLab.exe		676 K	5,000 K	9924			Disabled (permane...	
vcpgkgrv.exe	< 0.01	42,712 K	17,160 K	7152	Microsoft (R) Visual C++ Pac...	Microsoft Corporation	Enabled (permane...	
MSBuild.exe		28,676 K	44,468 K	11116	MSBuild.exe	Microsoft Corporation	Enabled (permane...	ASLR
conhost.exe		6,344 K	10,908 K	11188	Console Window Host	Microsoft Corporation	Enabled (permane...	ASLR
msvsmom.exe		5,344 K	15,240 K	11272	Visual Studio 2019 Remote ...	Microsoft Corporation	Enabled (permane...	ASLR
ScriptedSandbox64.exe	1.46	103,196 K	132,604 K	11280	ScriptedSandbox64.exe	Microsoft Corporation	Enabled (permane...	ASLR
Snipping Tool.exe	1.46	5,960 K	21,356 K	4972	Snipping Tool	Microsoft Corporation	Enabled (permane...	ASLR
procexp64.exe	1.09	30,228 K	49,308 K	120	Sysinternals Process Explorer	Sysinternals - www.sysinter...	Enabled (permane...	ASLR
SynTPHelper.exe		1,064 K	4,432 K	2692			Enabled (permane...	n/a
CCXProcess.exe		588 K	2,484 K	7588	CCXProcess	Adobe Systems Incorporated	Enabled (permane...	ASLR
node.exe		45,092 K	66,472 K	7604	Node.js: Server-side JavaScr...	Node.js	Enabled (permane...	ASLR
conhost.exe		6,292 K	5,196 K	7612	Console Window Host	Microsoft Corporation	Enabled (permane...	ASLR
AdobeIPCBroker.exe		2,308 K	9,192 K	6064	Adobe IPC Broker	Adobe Inc	Enabled (permane...	ASLR

CPU Usage: 17.51% Commit Charge: 54.55% Processes: 205 Physical Usage: 82.09%

Can be seen that DEP has been disabled.