

Name: Panwala Harshit Rakesh

Reg. No.: 18BCE7137

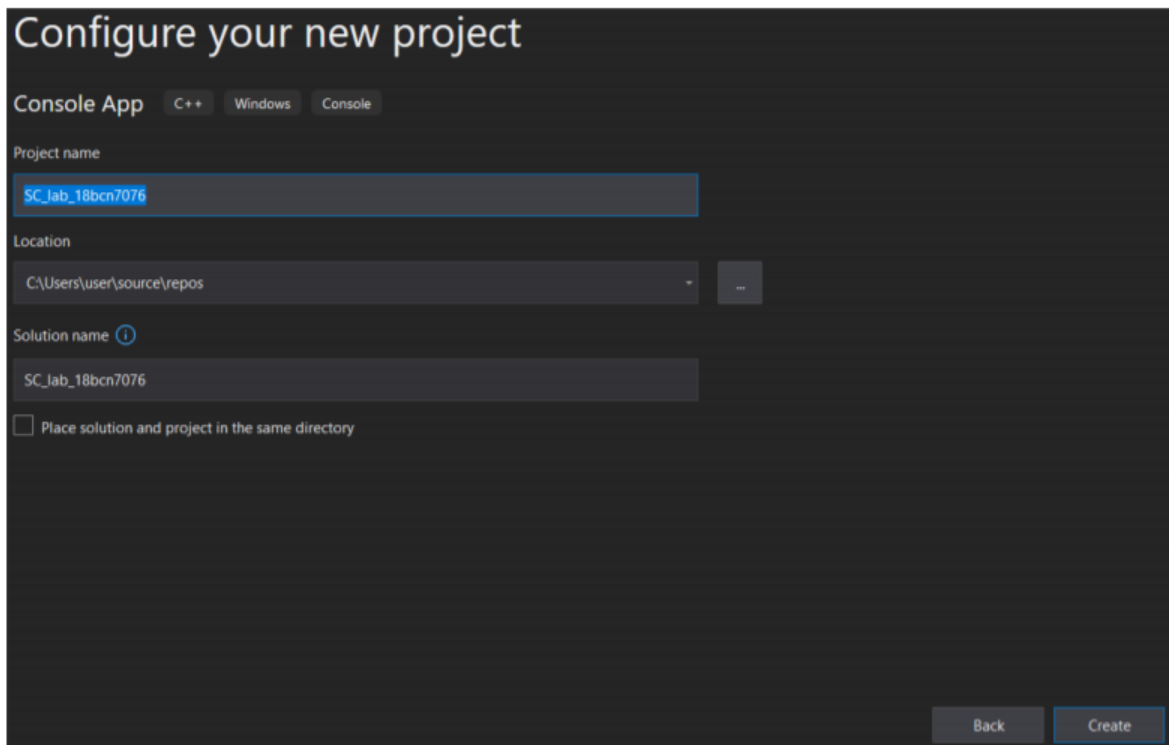
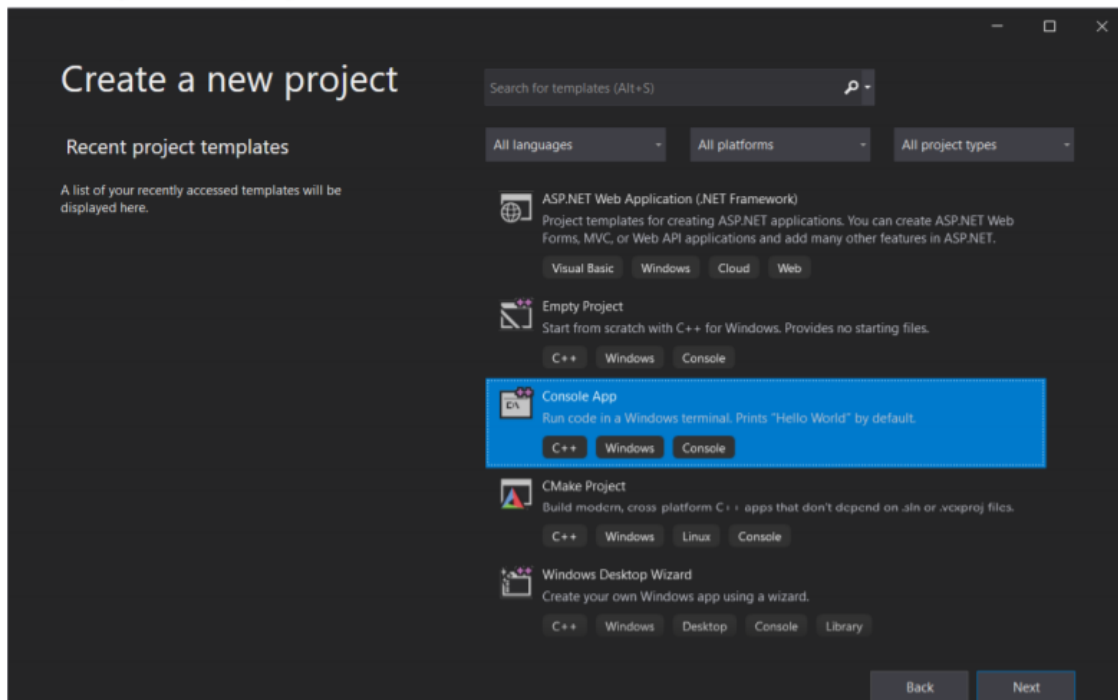
Course code/name: CSE2010/ Secure Coding

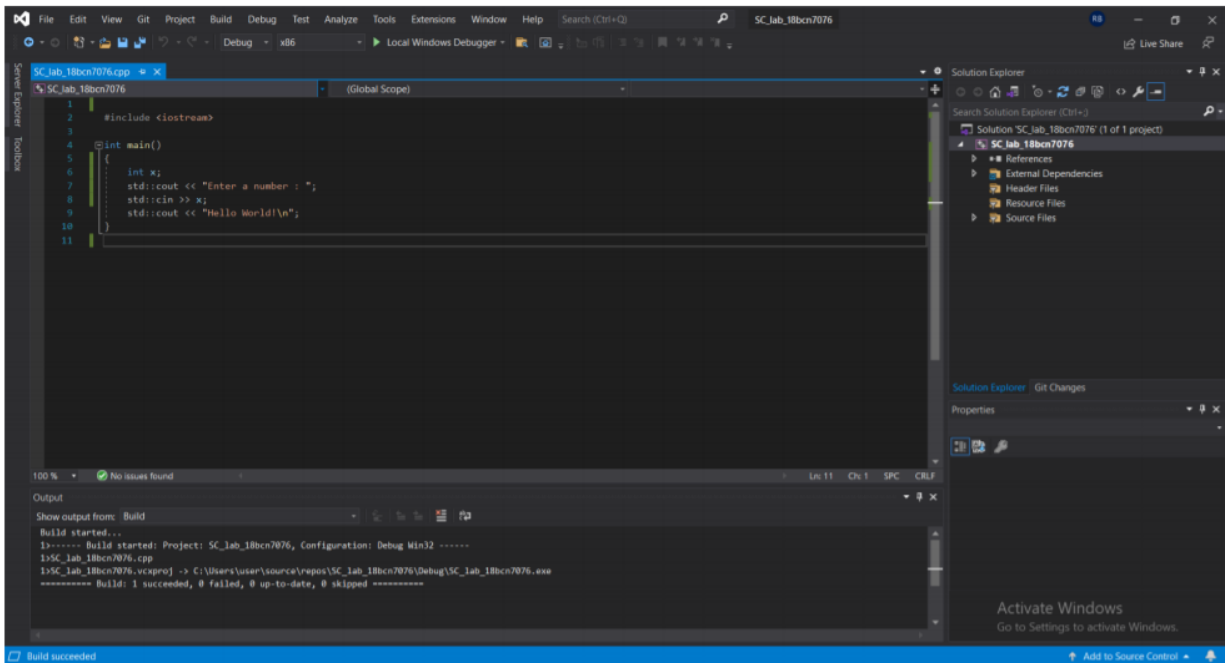
Slot: L23 + L24

Faculty: Prof. Sibi Chakkaravarthy S

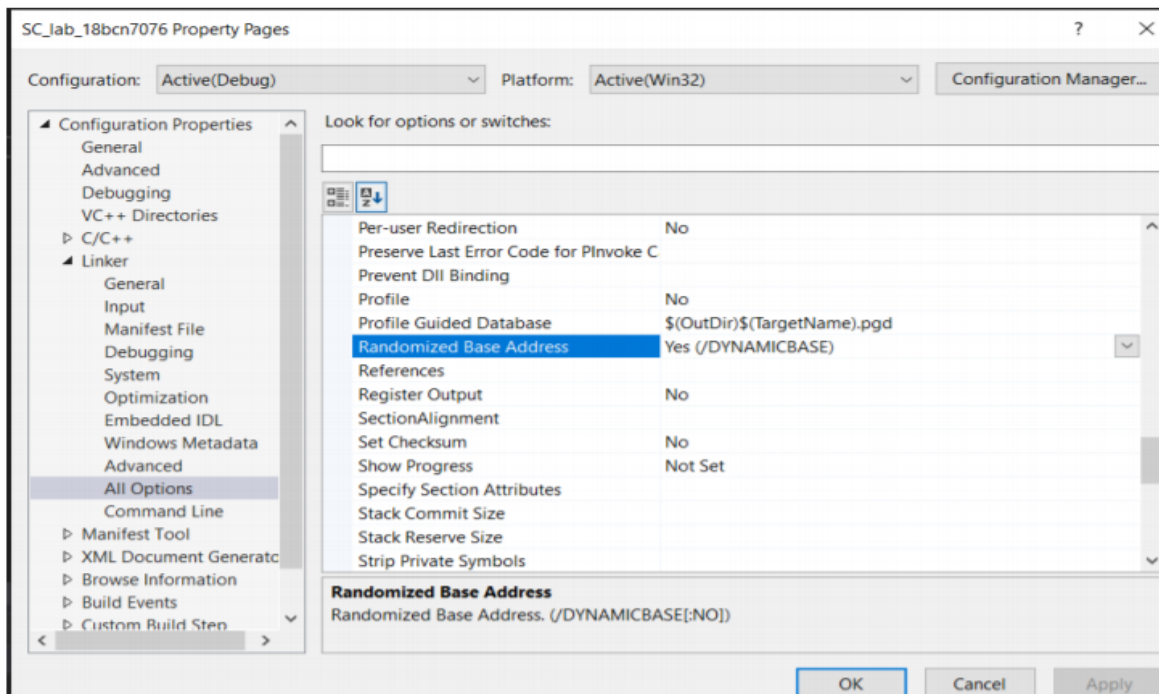
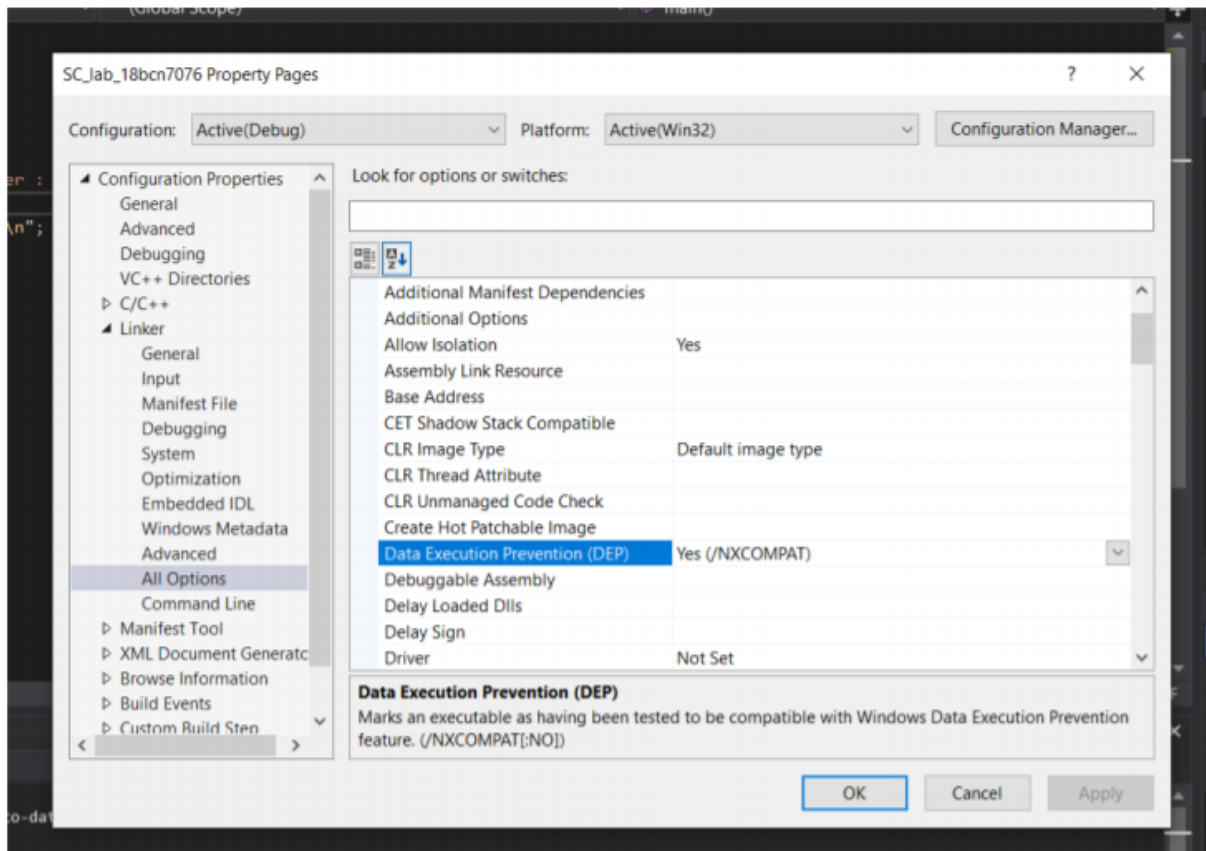
LAB-11

- Downloaded visual studio and process explorer.
- Creating a new project.

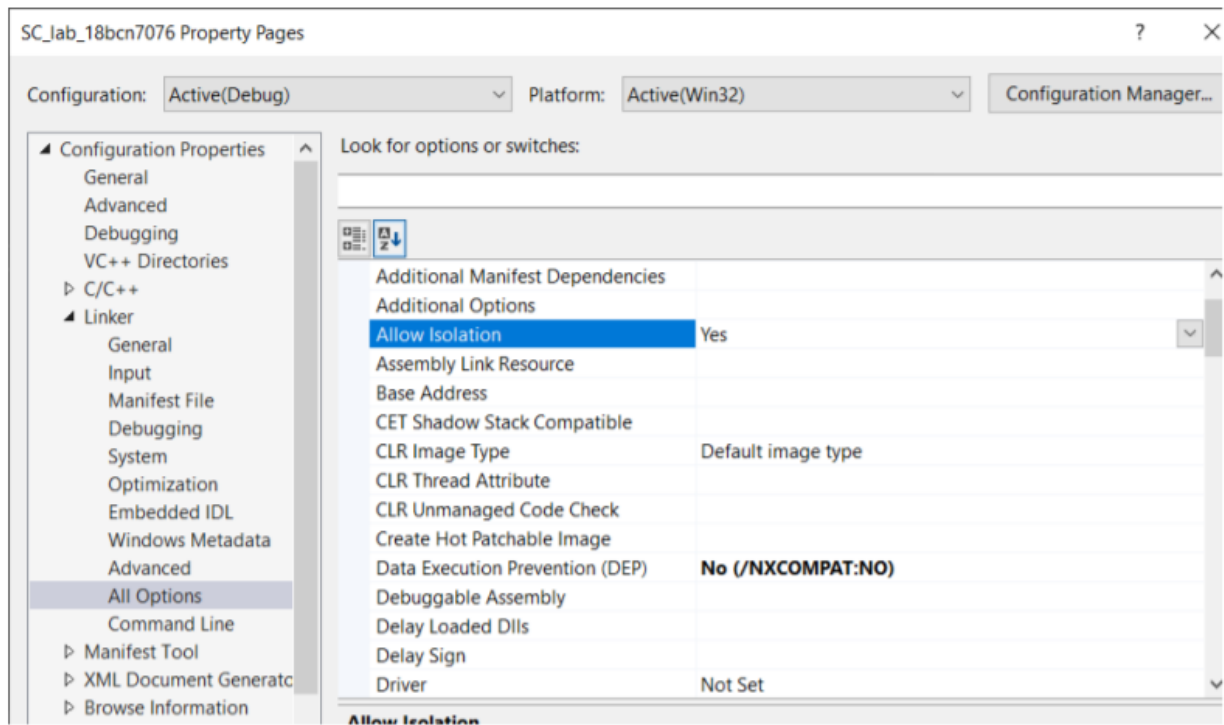
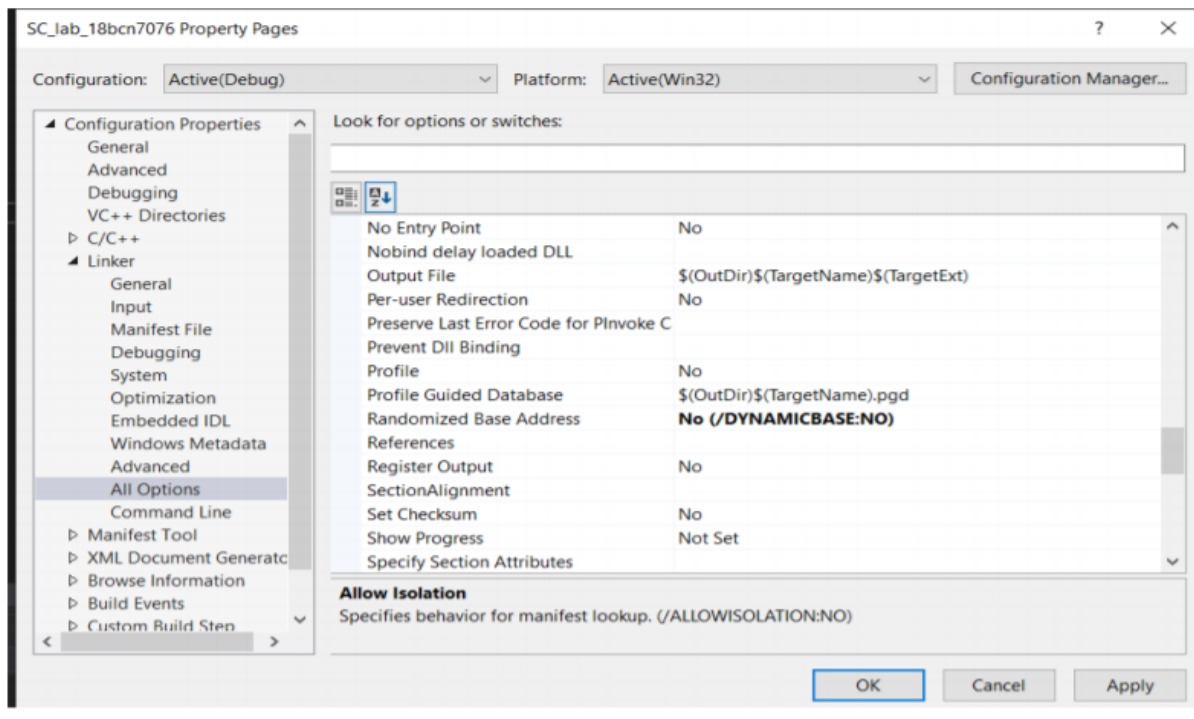


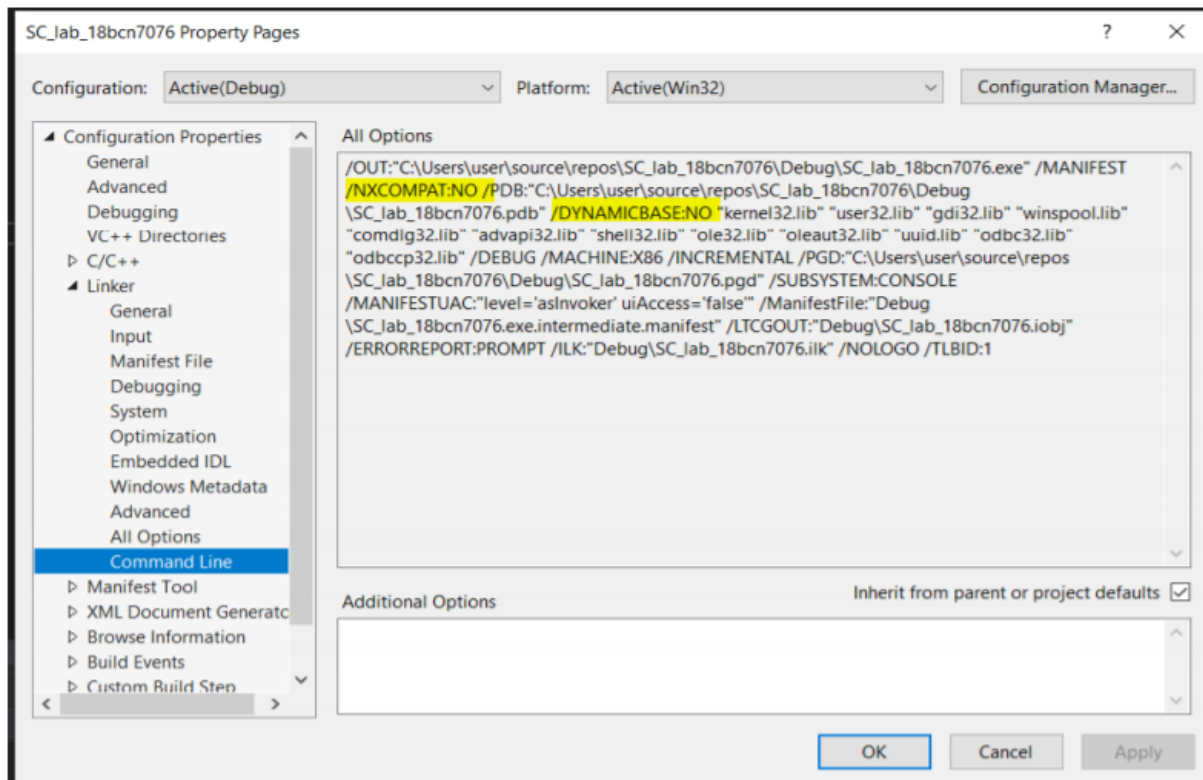


- Visiting the properties of the project and verifying the DEP,ASLR and SEH properties.

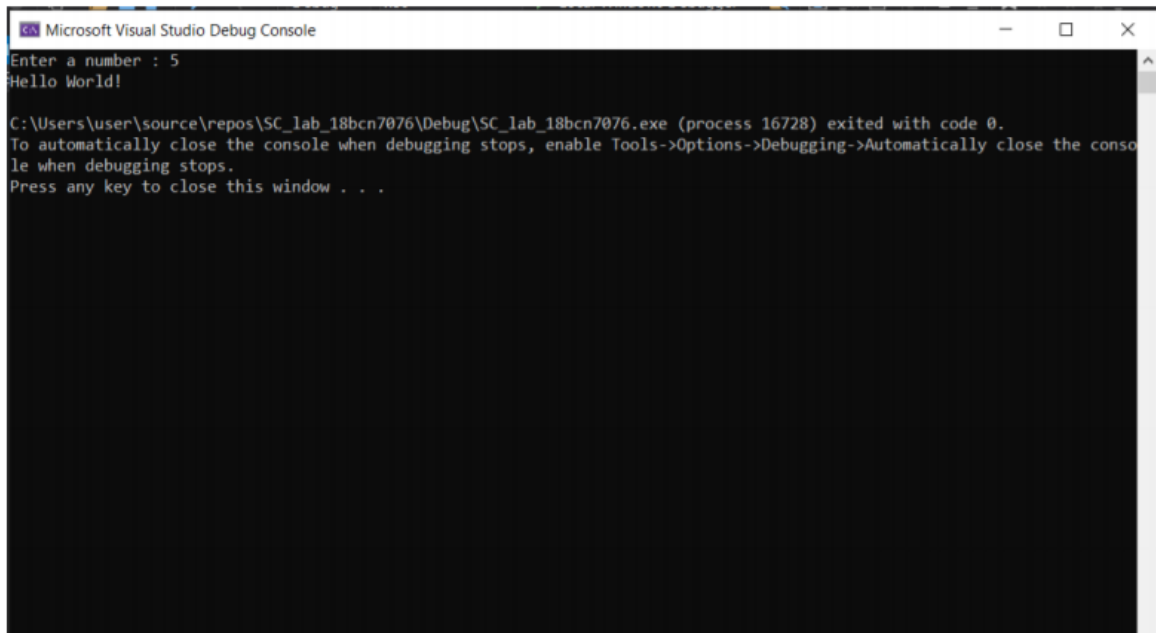


Changing the default option to **no** in command line to check them in process explorer



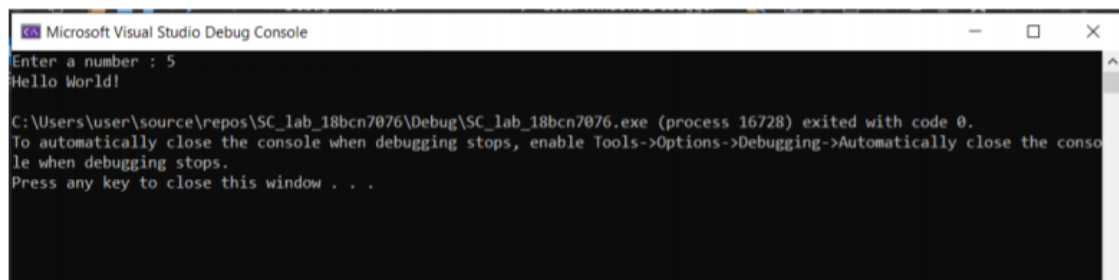
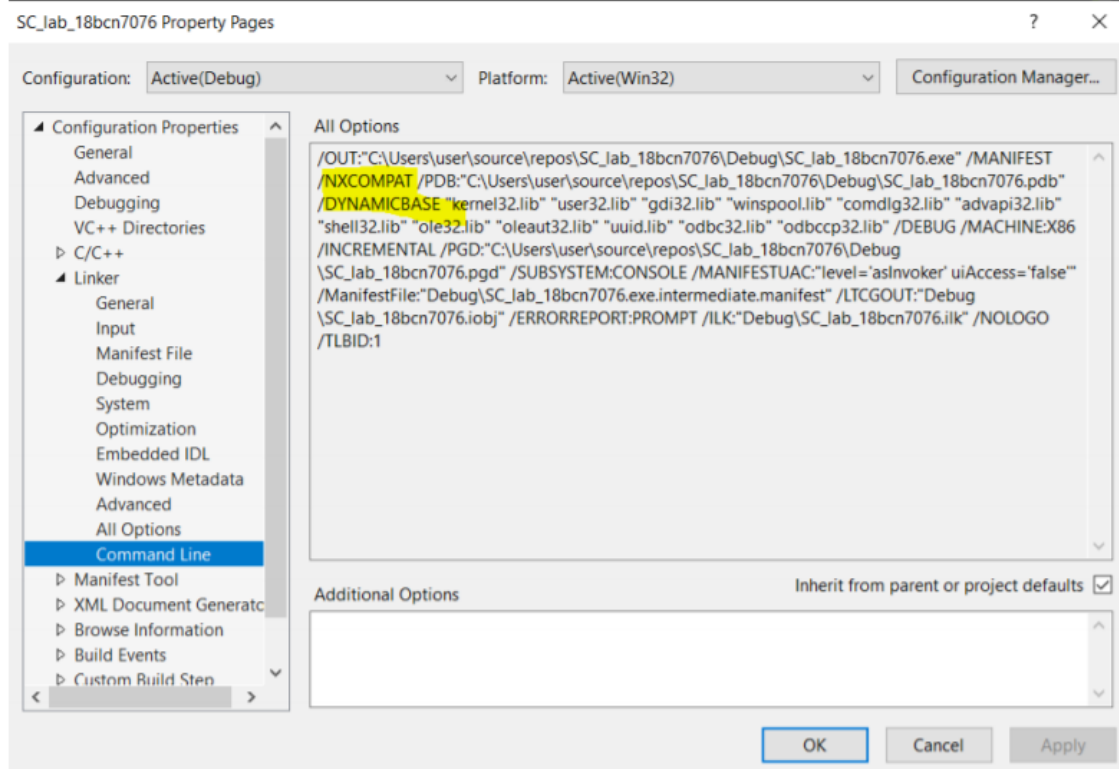


After executing the file .cpp



Process	CPU	Private Bytes	Working Set	PID	Description	Company Name	Path	DEP	ASLR
RuntimeBroker.exe	<0.01	5,056 K	24,724	9284	Runtime Broker	Microsoft Corporation	C:\Windows\System32\RuntimeBroker.exe	Enabled (permanent)	ASLR
RuntimeBroker.exe		1,824 K	7,224 K	9312	Runtime Broker	Microsoft Corporation	C:\Windows\System32\RuntimeBroker.exe	Enabled (permanent)	ASLR
RuntimeBroker.exe		4,416 K	19,040 K	11696	Runtime Broker	Microsoft Corporation	C:\Windows\System32\RuntimeBroker.exe	Enabled (permanent)	ASLR
RuntimeBroker.exe		12,028 K	31,828 K	10,728	Runtime Broker	Microsoft Corporation	C:\Windows\System32\RuntimeBroker.exe	Enabled (permanent)	ASLR
hndt32.exe		2,000 K	9,784 K	2112	Windows host process (Fluent)		C:\Windows\System32\hndt32.exe	Enabled (permanent)	ASLR
hndt32.exe		4,876 K	14,960 K	2,550	Realtek HD Audio Manager	Realtek Semiconductor	C:\Program Files\Realtek\Audio\HDA\RtHDVA64.exe	Enabled (permanent)	ASLR
processapi.dll	1.49	37,460 K	57,712 K	17132	Systematics Process Explorer	Systematics - www.systema	C:\Users\user\AppData\Local\Temp\processapi.dll	Enabled (permanent)	ASLR
Microsoft.ServiceHub.Controller.exe		44,540 K	56,868 K	13,644	Microsoft ServiceHub Control	Microsoft	C:\Program Files (x86)\Microsoft Visual Studio\2019\Community\Common7\ServiceHub\controller.exe	Enabled (permanent)	ASLR
Microsoft.Photos.exe	Susp.	50,636 K	2,600 K	2676			C:\Program Files\WindowsApps\Microsoft.Windows.Photos.2020.10.120.4004_x-ww_8wekyb3d8bbfe\Microsoft.Photos.exe	Enabled (permanent)	ASLR
lockapp.exe	Susp.	15,772 K	50,204 K	4636	LockApp.exe	Microsoft Corporation	C:\Windows\System32\lockapp.exe	Enabled (permanent)	ASLR
hijack.exe		7,580 K	25,540 K	9,416	hijack Module	Intel Corporation	C:\Windows\System32\hijack.exe	Enabled (permanent)	ASLR
hijack.exe	<0.01	9,796 K	33,204 K	11,604	Windows Outlook Communic	Microsoft Corporation	C:\Program Files\WindowsApps\Microsoft.WindowsCommunicationsApps.16055.13426.20050.0_x-ww_8wekyb3d8bbfe\hijack.exe	Enabled (permanent)	ASLR
hijack.exe	Susp.	23,828 K	3,164 K	16,244	Microsoft Outlook	Microsoft Corporation	C:\Program Files\WindowsApps\Microsoft.WindowsCommunicationsApps.16055.13426.20050.0_x-ww_8wekyb3d8bbfe\hijack.exe	Enabled (permanent)	ASLR
hijack.exe	<0.01	18,440 K	32,176 K	13,000	Microsoft Office Accounts	Microsoft Corporation	C:\Program Files\WindowsApps\Microsoft.WindowsCommunicationsApps.16055.13426.20050.0_x-ww_8wekyb3d8bbfe\hijack.exe	Enabled (permanent)	ASLR
explorer.exe	0.19	86,668 K	148,340 K	31188	Windows Explorer	Microsoft Corporation	C:\Windows\explorer.exe	Enabled (permanent)	ASLR
chost.exe		4,256 K	13,204 K	11,760	COM Surrogate	Microsoft Corporation	C:\Windows\System32\chost.exe	Enabled (permanent)	ASLR
chost.exe		3,348 K	10,512 K	7676	COM Surrogate	Microsoft Corporation	C:\Windows\System32\chost.exe	Enabled (permanent)	ASLR
cfmon.exe	<0.01	40,904 K	44,156 K	9,252			[Access is denied]	Enabled (permanent)	n/a
cfmon.exe	Susp.	30,962 K	31,088 K	9,228	Curator	Microsoft Corporation	C:\Program Files\WindowsApps\Microsoft.SAFARI.PSP.10.3.105.19601_x-ww_8wekyb3d8bbfe\cfmon.exe	Enabled (permanent)	ASLR
conhost.exe		6,528 K	11,536 K	2,245	Console Window Host	Microsoft Corporation	C:\Windows\System32\conhost.exe	Enabled (permanent)	ASLR
conhost.exe		7,188 K	17,024 K	4,872	Console Window Host	Microsoft Corporation	C:\Windows\System32\conhost.exe	Enabled (permanent)	ASLR
CompPkgSvc.exe		1,760 K	9,012 K	12,372	Component Package Support	Microsoft Corporation	C:\Windows\System32\CompPkgSvc.exe	Enabled (permanent)	ASLR
chrome.exe	0.19	1,02,292 K	1,64,164 K	10,960	Google Chrome	Google LLC	C:\Program Files\Google\Chrome\Application\chrome.exe	Enabled (permanent)	ASLR
chrome.exe		2,400 K	7,820 K	19,040	Google Chrome	Google LLC	C:\Program Files\Google\Chrome\Application\chrome.exe	Enabled (permanent)	ASLR
chrome.exe		7,861,944 K	7,281,968 K	12,792	Google Chrome	Google LLC	C:\Program Files\Google\Chrome\Application\chrome.exe	Enabled (permanent)	ASLR
chrome.exe	<0.01	23,344 K	41,124 K	12,836	Google Chrome	Google LLC	C:\Program Files\Google\Chrome\Application\chrome.exe	Enabled (permanent)	ASLR
chrome.exe		13,072 K	17,532 K	8,704	Google Chrome	Google LLC	C:\Program Files\Google\Chrome\Application\chrome.exe	Enabled (permanent)	ASLR
chrome.exe		40,124 K	66,248 K	11,940	Google Chrome	Google LLC	C:\Program Files\Google\Chrome\Application\chrome.exe	Enabled (permanent)	ASLR
chrome.exe		1,99,384 K	2,12,480 K	7,708	Google Chrome	Google LLC	C:\Program Files\Google\Chrome\Application\chrome.exe	Enabled (permanent)	ASLR
chrome.exe	<0.01	39,248 K	68,688 K	10,500	Google Chrome	Google LLC	C:\Program Files\Google\Chrome\Application\chrome.exe	Enabled (permanent)	ASLR
chrome.exe		36,204 K	65,568 K	16,196	Google Chrome	Google LLC	C:\Program Files\Google\Chrome\Application\chrome.exe	Enabled (permanent)	ASLR
chrome.exe		10,324 K	19,800 K	13,660	Google Chrome	Google LLC	C:\Program Files\Google\Chrome\Application\chrome.exe	Enabled (permanent)	ASLR
chrome.exe	<0.01	2,04,572 K	2,26,592 K	15,124	Google Chrome	Google LLC	C:\Program Files\Google\Chrome\Application\chrome.exe	Enabled (permanent)	ASLR
chrome.exe		43,440 K	83,600 K	16,396	Google Chrome	Google LLC	C:\Program Files\Google\Chrome\Application\chrome.exe	Enabled (permanent)	ASLR
chrome.exe		15,936 K	23,672 K	12,800					

Again enabling the DEP and ASLR status and also the SEH



Process Explorer - Sysinternals: www.sysinternals.com [DESKTOP-TSKJKR1\user]

Process	CPU	Private Bytes	Working Set	PID	Des...	Company Name	Path	DEP	ASLR
wsc_proxy.exe		4,476 K	5,812 K	3088	Avast...	AVAST Software	C:\Program Files\Avast Soft... n/a		ASLR
SC_lab_18bcn7076.exe		784 K	4,924 K	8792			C:\Users\user\source\repo...	Enabled (permanent)	ASLR
ScriptedSandbox64.exe		27,432 K	55,012 K	20176	Script...	Microsoft Corporation	C:\Program Files (x86)\Micr...	Enabled (permanent)	ASLR