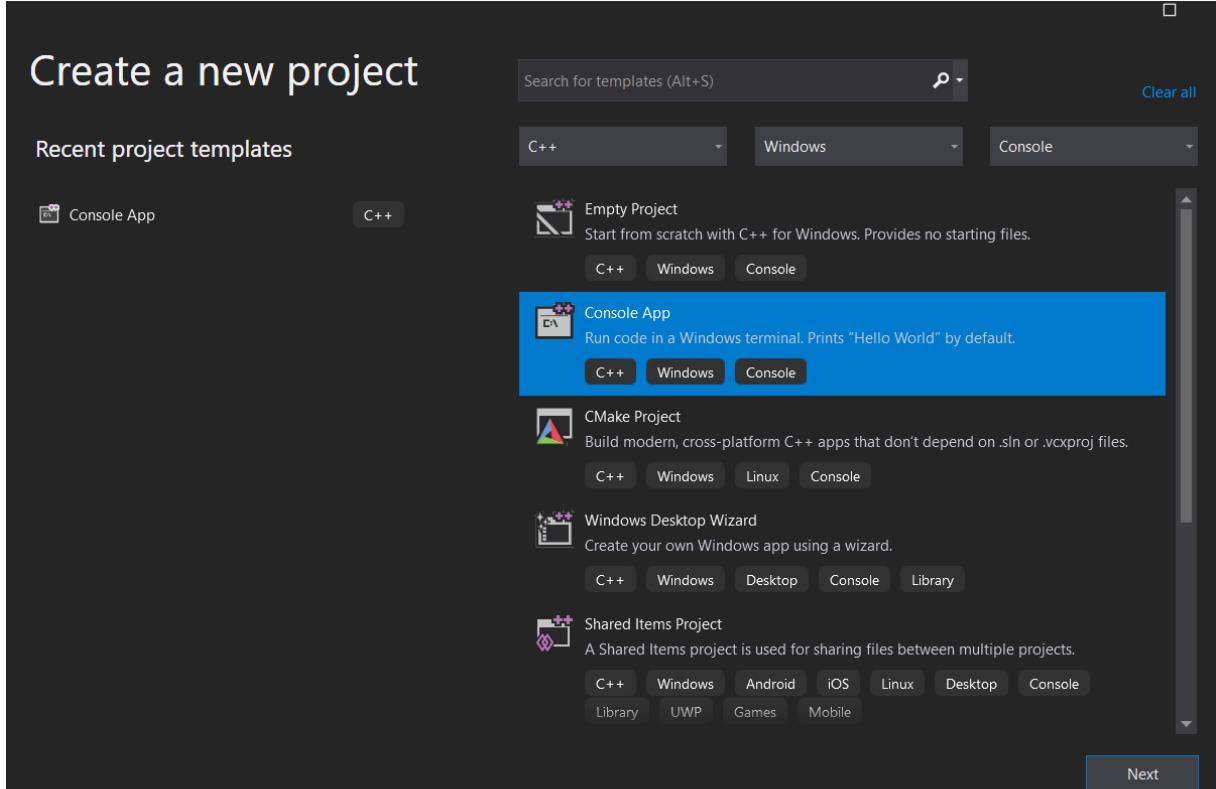


Secure Coding

Lab-11

Santhosh M
18BCN7088

Initiating project in VS:



```
// ConsoleApplication1.cpp : This file contains the 'main' function.
//

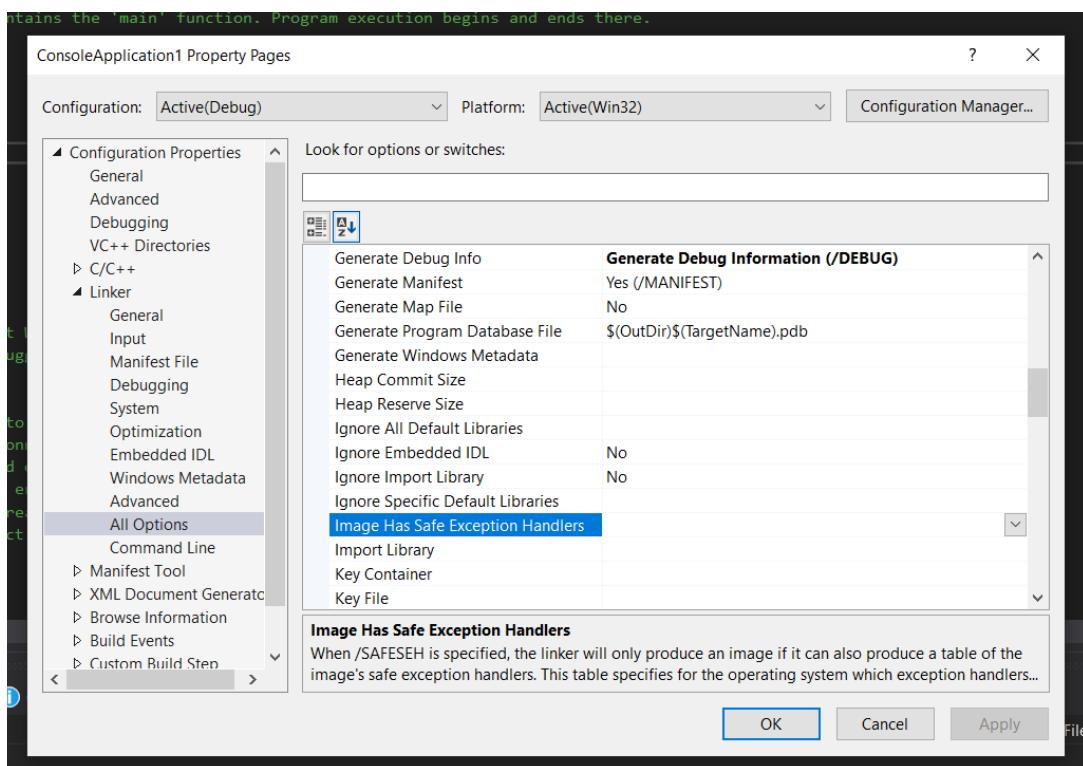
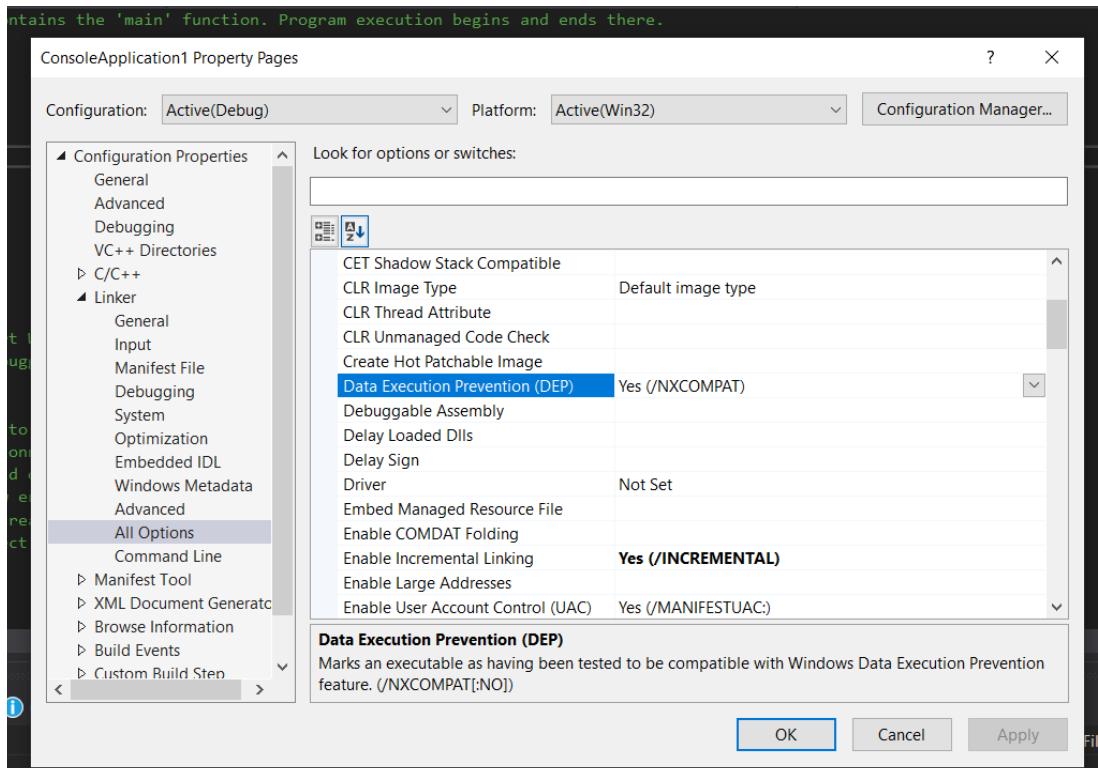
#include <iostream>

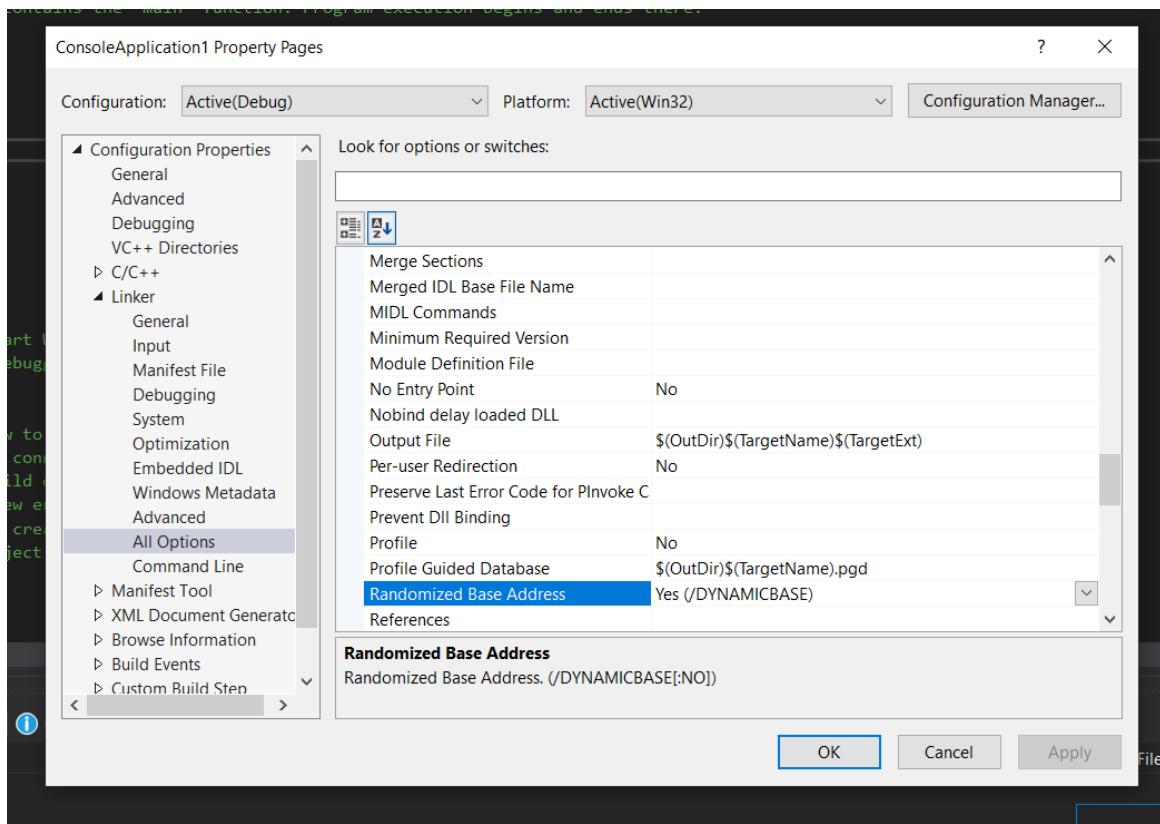
int main()
{
    int n;
    std::cout << "Enter a number\n";
    std::cin >> n;
    std::cout << "You entered: ";
    std::cout << n;
}

// Run program: Ctrl + F5 or Debug > Start Without Debugging menu
// Debug program: F5 or Debug > Start Debugging menu

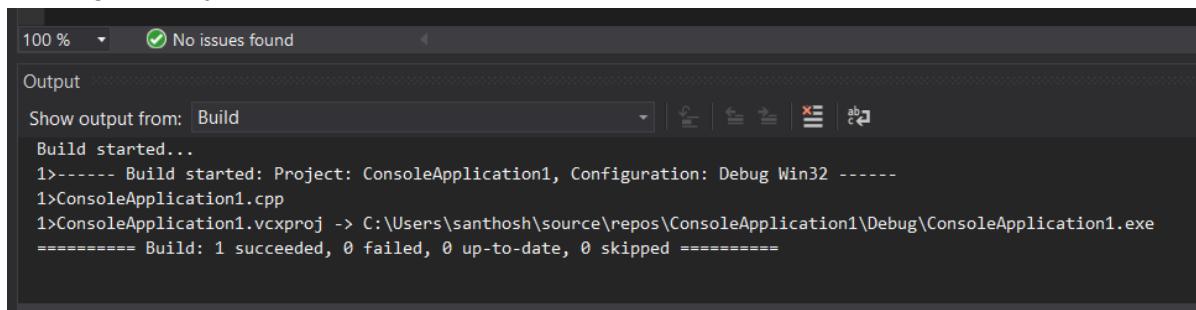
// Tips for Getting Started:
// 1. Use the Solution Explorer window to add/manage files
// 2. Use the Team Explorer window to connect to source control
// 3. Use the Output window to see build output and other messages
// 4. Use the Error List window to view errors
// 5. Go to Project > Add New Item to create new code files, or Pro
// 6. In the future, to open this project again, go to File > Open
```

Checking project properties (DEP, RBA and Safe exception handlers):





Building the project



Checking this app through process manager before changing values:

Select Columns

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
<input checked="" type="checkbox"/>	<input type="checkbox"/>
PID (Process Identifier)	Window Status
<input checked="" type="checkbox"/>	<input type="checkbox"/>
User Name	Session
<input checked="" type="checkbox"/>	<input type="checkbox"/>
Description	Command Line
<input checked="" type="checkbox"/>	<input type="checkbox"/>
Company Name	Comment
<input type="checkbox"/>	<input type="checkbox"/>
Verified Signer	Autostart Location
<input type="checkbox"/>	<input type="checkbox"/>
Version	VirusTotal
<input type="checkbox"/>	<input checked="" type="checkbox"/>
Image Path	DEP Status
<input type="checkbox"/>	<input type="checkbox"/>
Image Type (64 vs 32-bit)	Integrity Level
<input type="checkbox"/>	<input type="checkbox"/>
Package Name	Virtualized
<input type="checkbox"/>	<input checked="" type="checkbox"/>
DPI Awareness	ASLR Enabled
<input type="checkbox"/>	<input type="checkbox"/>
Protection	UI Access
<input type="checkbox"/>	<input type="checkbox"/>
Control Flow Guard	Enterprise Context
<input type="checkbox"/>	<input type="checkbox"/>
Stack Protection	

OK Cancel

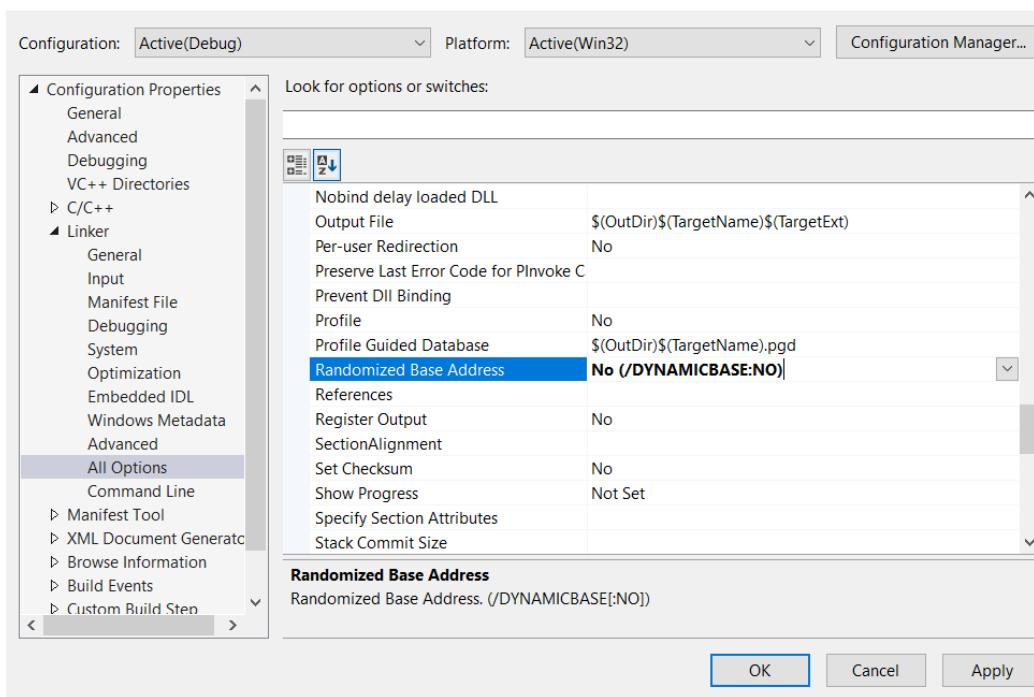
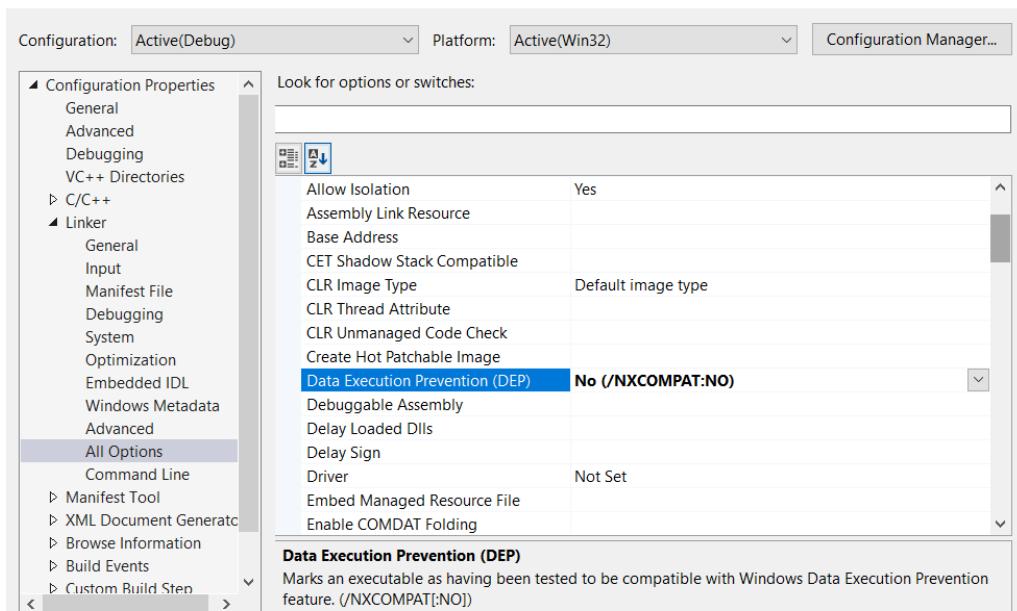
Process Explorer - Sysinternals: www.sysinternals.com [SANTHOSH\Santhosh]

File Options View Process Find Users Help

Process	CPU	Private Bytes	Working Set	PID	Description	CompanyName	DEP	ASLR
ConsoleApplication1.exe	772 K	4,616 K	11092			Enabled(permanent)	ASLR	

Changing values in the project to NO, rebuilding the project and checking through process explorer again:

ConsoleApplication1 Property Pages



Now process explorer shows that they are disabled

