CSE2010 LAB-11

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Create a cpp code and build an executable on visual studio

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Cpp code:

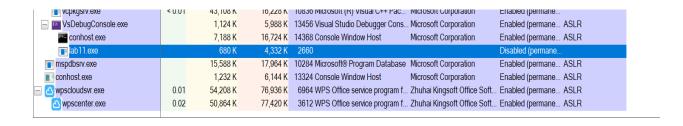
```
#include<iostream>
int main() {
    std::cout << "Secure lab 11" << std::endl;
    std::cin.get();
}</pre>
```

```
Sourcecp = X

(Global Scope) (Global
```

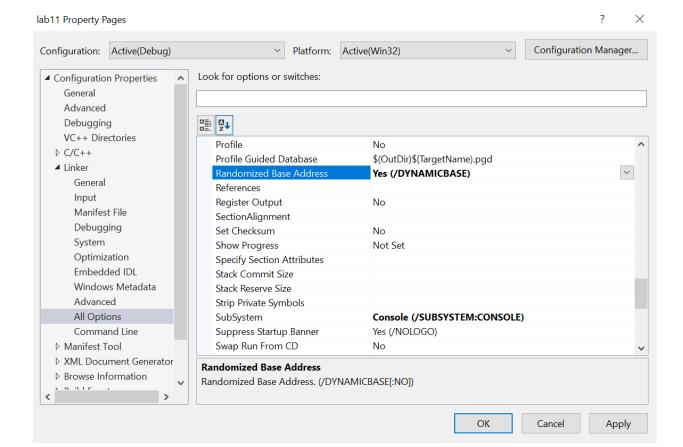


DEP and ASLR status in process explorer:-



Here DEP is disabled.

Enabling dEP,ASLR AND SEH in project properties:-



lab11 Property Pages X Configuration Manager... Configuration: Active(Debug) Platform: Active(Win32) Look for options or switches: ▲ Configuration Properties General Advanced Debugging Z Z VC++ Directories Add Module to Assembly Additional Dependencies kernel32.lib;user32.lib;gdi32.lib;winspool.lib;comdlg32.lib;adva ▲ Linker Additional Library Directories General Additional Manifest Dependencies Input Additional Options Manifest File Allow Isolation Yes Debugging Assembly Link Resource System Base Address Optimization CET Shadow Stack Compatible **Embedded IDL CLR Image Type** Default image type Windows Metadata **CLR Thread Attribute** Advanced CLR Unmanaged Code Check All Options Create Hot Patchable Image Command Line Yes (/NXCOMPAT)

Marks an executable as having been tested to be compatible with Windows Data Execution Prevention

OK

Cancel

Apply

Debuggable Assembly

feature. (/NXCOMPAT[:NO])

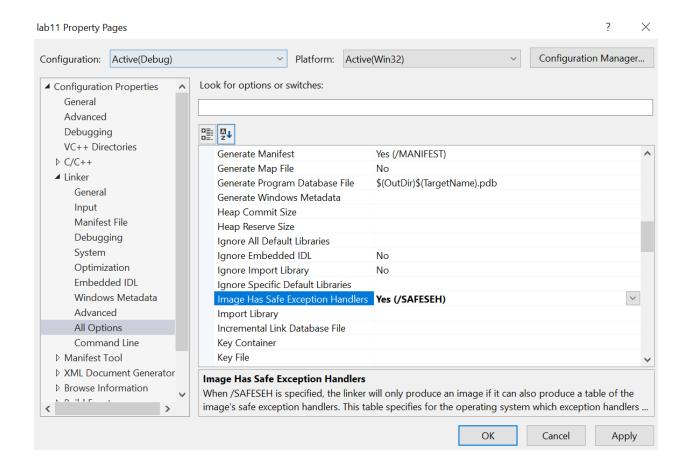
Data Execution Prevention (DEP)

▶ Manifest Tool

> XML Document Generator

>

▶ Browse Information



Now rebuild and run the project. Verify the status in process explorer:-

